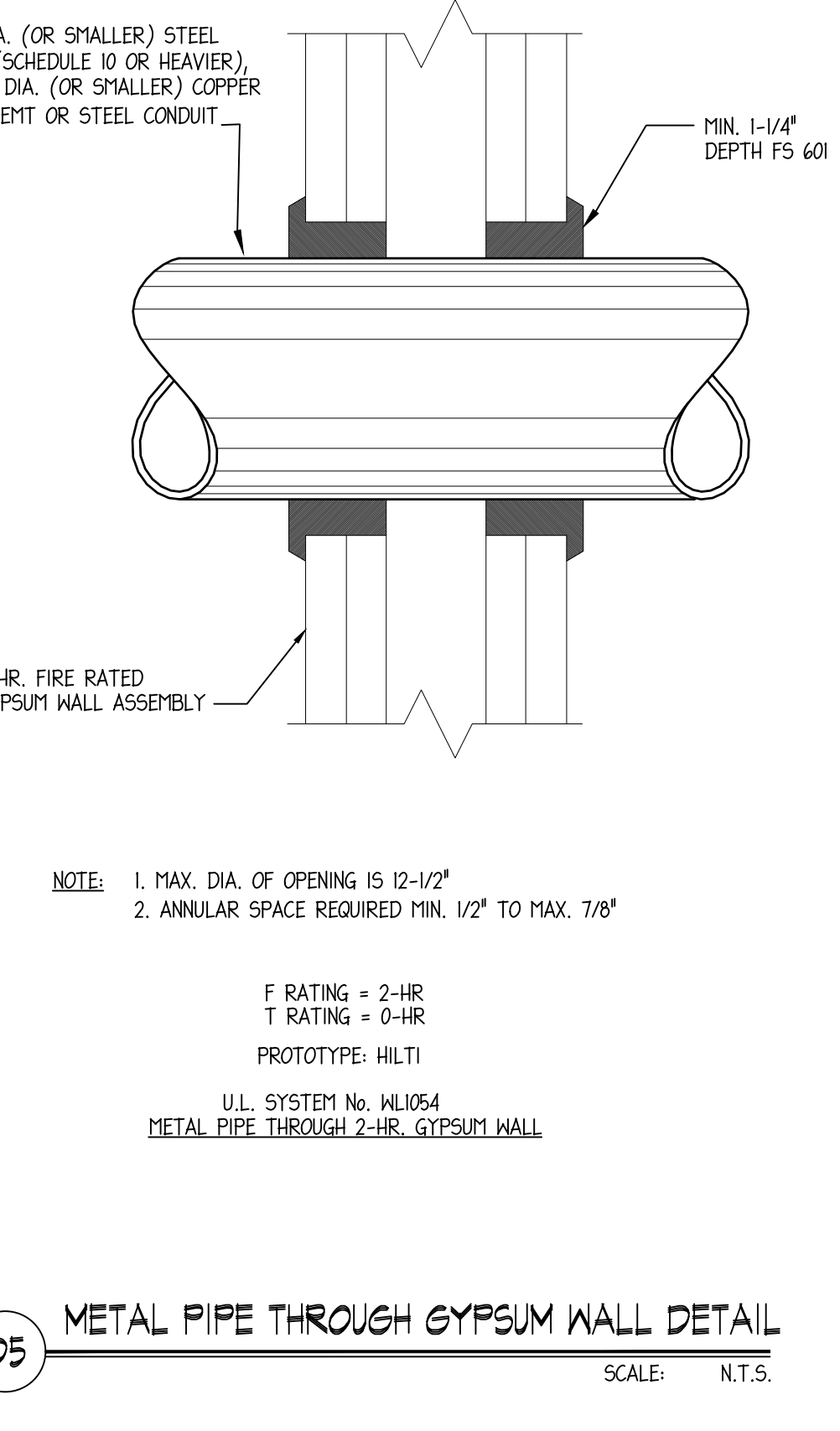
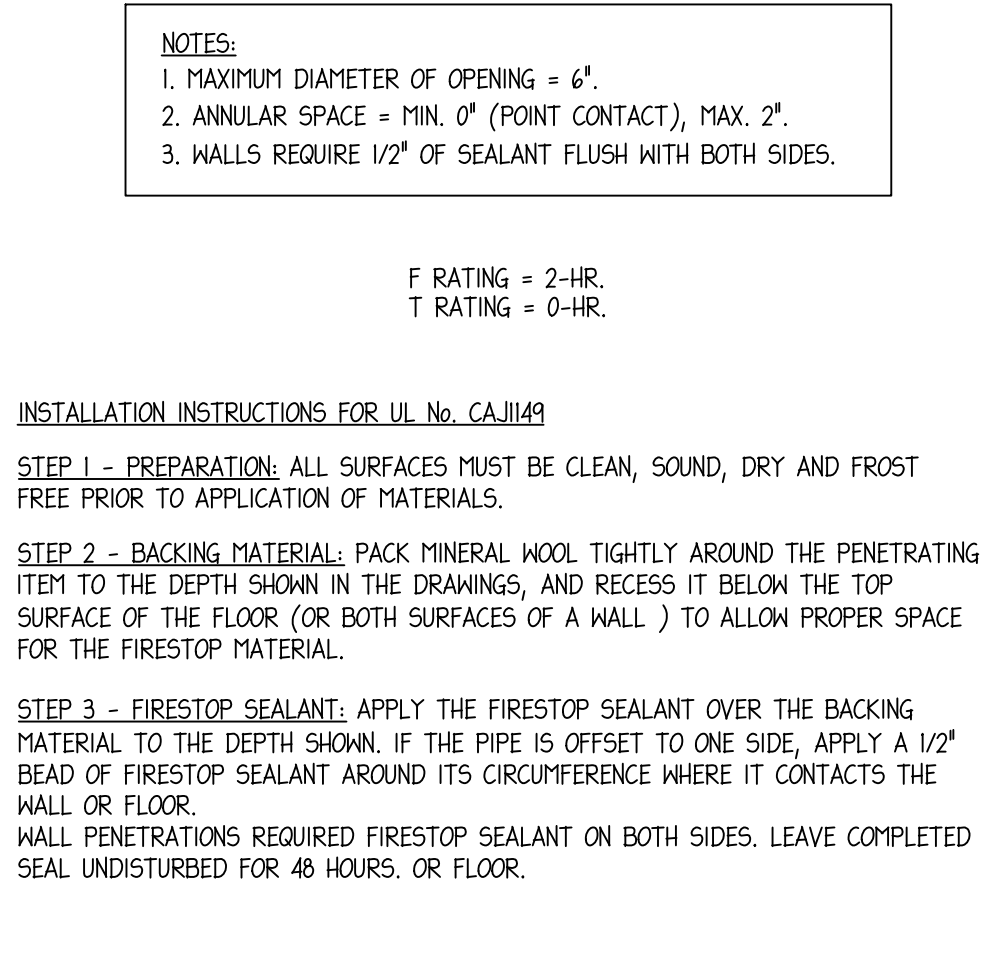


ELECTRICAL DRAWINGS LIST	
E0.01	ELECTRICAL ABBREVIATIONS & LEGEND
E0.02	GENERAL ELECTRICAL NOTES
E1.01	SITE PLAN POWER AND LIGHTING SERVICE AREAS
E1.02	SITE PLAN LIGHTING LEVELS
E2.01	FLOOR PLAN LIGHTING - WEST
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### GENERAL ELECTRICAL NOTES

- CODES AND REFERENCES
  - ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS OF THE FOLLOWING ORGANIZATIONS, AS APPLICABLE. THE LATEST EDITION OF THE FLORIDA BUILDING CODE SHALL APPLY EXCEPT WHERE THE PUBLIC AUTHORITY REQUIRES USE OF AN EARLIER EDITION.
    - 2020 FLORIDA BUILDING CODE - 7TH EDITION
    - 2018 NFPA 101 - LIFE SAFETY CODE
    - 2017 NFPA 70 - NATIONAL ELECTRIC CODE
    - 2019 NFPA 72 - NATIONAL FIRE ALARM CODE
    - 2018 NFPA 90A - STANDARD FOR THE INSTALLATION OF AIR-CONDITIONING AND VENTILATING SYSTEMS
    - 2021 STATE AND LOCAL ORDINANCES
    - 2021 USFS STANDARD DESIGN CRITERIA, HANDBOOK AS-503
  - ELECTRICAL WORK SHALL COMPLY WITH THE STANDARDS OF THE FOLLOWING ORGANIZATIONS, AS APPLICABLE. THE LATEST EDITION OF THE STANDARD SHALL APPLY EXCEPT WHERE THE PUBLIC AUTHORITY REQUIRES USE OF AN EARLIER EDITION.
    - ADA - AMERICAN DISABILITY ACT
    - ANSI - AMERICAN NATIONAL STANDARD INSTITUTE
    - ENR/IA/ET - ELECTRICAL INDUSTRIES ASSOC.
    - FMI - FACTORY MUTUAL
    - IEEE - INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
    - NECA - NATIONAL ELECTRICAL CONTRACTORS ASSOC., INC.
  - PROJECT RECORD DOCUMENTS:
    - RECORD DRAWINGS: MAINTAIN A CLEAN, UNDAMAGED SET OF BLUE OR BLACK LINE WHITE-PRINTS OF CONTRACT DRAWINGS AND SHOP DRAWINGS. MARK THE SET TO SHOW THE ACTUAL INSTALLATION WHERE THE INSTALLATION VARIES FROM THE WORK AS ORIGINALLY SHOWN. MARK WHICH DRAWING IS MOST CAPABLE OF SHOWING CONDITIONS FULLY AND ACCURATELY. GIVE PARTICULAR ATTENTION TO CONCEALED ELEMENTS THAT WOULD BE DIFFICULT TO MEASURE AND RECORD AT A LATER DATE.
      - MARK RECORD SETS WITH RED ERASABLE COLORED PENCIL.
      - MARK IMPORTANT ADDITIONAL INFORMATION THAT WAS EITHER SHOWN SCHEMATICALLY OR OMITTED FROM ORIGINAL DRAWINGS.
    - RESPONSIBILITY FOR MARKUP: THE ELECTRICAL SUBCONTRACTOR SHALL PREPARE THE MARK UP ON RECORD DRAWINGS.
      - ACCURATELY RECORD INFORMATION IN AN UNDERSTANDABLE DRAWING TECHNIQUE.
      - RECORD DATA AS SOON AS POSSIBLE AFTER OBTAINING IT. RECORD AND CHECK THE MARKUP PRIOR TO ENCLOSING CONCEALED INSTALLATIONS.
    - SUBMITTAL: AT TIME OF COMPLETION, SUBMIT RECORD DRAWINGS TO THE ARCHITECT/ENGINEER AND/OR OWNER FOR THE OWNER'S RECORDS. ORGANIZE INTO SETS AND BIND & LABEL SET FOR THE OWNER'S CONTINUED USE.
  - ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS MANNER AND SHALL BE COMPLETED AND FULLY OPERATIVE TO THE ACCEPTANCE OF THE OWNER, GENERAL CONTRACTOR AND ENGINEER.
  - CONTRACTOR SHALL GUARANTEE ALL ELECTRICAL WORK, INCLUDING PARTS AND LABOR, FOR A PERIOD OF ONE (1) YEAR AFTER FINAL WRITTEN ACCEPTANCE BY OWNER AND ENGINEER.
  - THIS CONTRACTOR SHALL PAY FOR ALL FEES, INSPECTIONS, TESTS, FINES, ETC., AS REQUIRED.
  - PRIOR TO COMMENCEMENT OF WORK, VERIFY MEASUREMENTS AT SITE. SUBMIT DISCREPANCIES AND DIFFERENCES TO ARCHITECT/ENGINEER FOR CONSIDERATION AND DECISION BEFORE PROCEEDING.
  - VERIFY ALL DIMENSIONS PRIOR TO ANY FABRICATION OR INSTALLATION.
  - OBTAIN FULL INFORMATION REGARDING PECULIARITIES AND LIMITATIONS OF SPACE AVAILABLE FOR INSTALLATION OF THE EQUIPMENT AND MATERIALS UNDER CONTRACT, AND PROVIDE READY ACCESSIBILITY TO ELECTRICAL EQUIPMENT, INCLUDING ANY PART OF SYSTEM REQUIRED TO BE REACHED FOR MAINTENANCE AND OPERATIONS.
  - PROVIDE AN ACCURATE LAYOUT, GRADES AND ELEVATIONS; TAKE PROPER PRECAUTIONS TO PROTECT WORK AND EQUIPMENT FROM DAMAGE.
  - CUT ALL OPENINGS REQUIRED TO ACCOMMODATE THE WORK UNDER THIS CONTRACT, AND REPAIR ALL SURFACES, ETC., DAMAGED BY SUCH CUTTINGS. ALL WORK DONE UNDER THIS HEADING MUST CONFORM IN EVERY RESPECT TO FINISH AND QUALITY OF MATERIALS AND WORKMANSHIP SPECIFIED UNDER APPROPRIATE SECTIONS. CONCRETE FLOOR OPENINGS SHALL BE CORE DRILLED. FIRE SEAL PENETRATIONS AS REQUIRED.
  - PROVIDE CODE APPROVED FIRE STOPPING AT ALL CONDUIT PENETRATIONS THROUGH BUILDING CONSTRUCTION TO MAINTAIN FIRE, SMOKE AND SOUND RATINGS. FIRE SEAL ALL PENETRATIONS. SEAL TELECOMMUNICATION SLEEVES AFTER CABLES HAVE BEEN INSTALLED.
  - THE ELECTRICAL AND TELEPHONE SERVICE INSTALLATION SHALL MEET ALL STANDARD REQUIREMENTS OF THE POWER AND TELEPHONE COMPANY. CONTRACTOR SHALL COORDINATE SERVICE REQUIREMENTS WITH THE RESPECTIVE UTILITY COMPANY, PROVIDING ACCORDINGLY.
  - THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH OTHERS AS WELL AS PROVIDING TEMPORARY POWER.
  - ALL MATERIAL SHALL BE NEW AND OF AMERICAN MANUFACTURE AND BEAR THE UNDERWRITERS' LABORATORY AND UNION LABELS WHERE APPLICABLE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE DELIVERY SCHEDULE OF MATERIAL.
  - VERIFY EQUIPMENT SIZES, VOLTAGE AND CURRENT CHARACTERISTICS, ETC., BEFORE THE ORDERING OF ANY EQUIPMENT AND BEFORE ROUGHING-IN FOR EQUIPMENT TO BE SUPPLIED BY OTHERS. NOTIFY ENGINEER OF ANY CONFLICTS. ADVISE ALL TRADES AND OTHERS FURNISHING EQUIPMENT THAT NOMINAL CHARACTERISTICS ARE 277/480V, THREE PHASE, 120/208 VOLTS, THREE PHASE.
  - PROVIDE A COMPLETE POWER CIRCUIT WIRING AND CONNECTIONS FOR EACH AND EVERY ITEM OF PERMANENT MECHANICAL EQUIPMENT. PRIOR TO ANY ROUGH-IN COORDINATE WITH HVAC AND PLUMBING EQUIPMENT NAMEPLATE TO OBTAIN CORRECT WIRE SIZE AND OVER CURRENT PROTECTION RATING. IF THE NAMEPLATE LABEL REQUIRES THE OVER CURRENT PROTECTION DEVICE TO BE FUSES, PROVIDE A FUSED SWITCH WITH PROPER SIZE FUSES AT THE EQUIPMENT LOCATION.
  - CORRECTION OF ANY DEFECTS, REPAIR OF DAMAGE DURING CONSTRUCTION AS WELL AS ANY MINOR CHANGES IN OUTLET LOCATIONS SHALL BE MADE WITHOUT ADDITIONAL COST.
    - INDOORS: USE THE FOLLOWING WIRING METHODS:
      - EXPOSED: RIGID STEEL OR IMC BELOW 8 FEET FROM FLOOR, EMT ABOVE 8 FEET FROM FLOOR.
      - CONCEALED: DRY INTERIOR WALLS EMT, CONDUIT DIRECT BURIED OR CONCRETE ENCASED SHALL BE PVC SCHEDULE 40.
      - CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC, ELECTRIC SOLENOID, OR MOTOR - DRIVEN EQUIPMENT): FMC; EXCEPT IN NET OR DATA LOCATIONS, USE LFMC.
      - DATA OR NET LOCATIONS: RIGID STEEL CONDUIT.
    - SEALING FITTINGS SHALL BE INSTALLED AT THE FOLLOWING POINTS, ELSEWHERE AS SHOWN.
      - WHERE REQUIRED BY THE NEC.
  - CIRCUIT NUMBERS ARE FOR IDENTIFICATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR CORRECTLY PHASING THE CIRCUITS IN THE PANEL AND SHALL BALANCE THE LOAD ON THE PHASES UNDER NORMAL OPERATING CONDITIONS. PROVIDE TYPEWRITTEN PANEL BOARD DIRECTORIES. UPDATE ALL DIRECTORIES IN EXISTING PANEL BOARDS AFFECTED BY THIS PROJECT ELECTRONICALLY TRACING ALL CIRCUITS.
- MULTI-WIRE BRANCH CIRCUITS IN SAME RACENAY SHALL HAVE A DEDICATED NEUTRAL. THE SHARING OF NEUTRAL CONDUCTORS FOR MULTI-WIRE BRANCH CIRCUITS IS PROHIBITED. ALL BRANCH CIRCUITS SHALL CONTAIN INDIVIDUAL NEUTRAL CONDUCTORS.
- ALL POWER AND LIGHTING CIRCUITS SHALL HAVE A GREEN EQUIPMENT GROUNDING CONDUCTOR SIZED AS PER NEC 250-122.
- PROVIDE NYLON PULL STRINGS IN ALL EMPTY CONDUITS FOR FUTURE USE.
- CONDUCTORS SHALL BE AS FOLLOWS:
  - COMPOSED OF 18 IACS ANNEALED COPPER, 600 VOLTS MINIMUM RATED 75 DEGREES CENTIGRADE, MAXIMUM TEMPERATURE - THM, THMN.
  - SOLID THW IN SIZE 10 AWG AND UNDER AND STRANDED THW IN SIZE 8 AWG AND LARGER.
  - PLAINLY MARKED AND COLOR CODED THROUGHOUT INSTALLATION.
  - NEUTRAL CONDUCTORS SHALL NOT BE SHARED BY 2 OR MORE PHASE CONDUCTORS APPLY FOR BRANCH CIRCUITS.
  - POWER AND BRANCH CIRCUITS MINIMUM CONDUIT RUN IN 1/2", ALL HOMERUNS MINIMUM CONDUIT RUN IN 3/4".
  - COMMUNICATION CABLE, LOW VOLTAGE, CONTROL INTERCOM, SECURITY AND COMMUNICATIONS WIRING RUN IN 3/4"
- FURNISH AND INSTALL HEAVY DUTY DISCONNECT SWITCHES AS SHOWN AND REQUIRED FOR EQUIPMENT FURNISHED BY OTHERS. FUSES SHALL BE DUAL ELEMENT, TIME DELAY TYPE.
- COLOR CODING OF CONDUCTORS:
  - WIRING FOR 120/208 VOLT 3 PHASE 4 WIRE SYSTEM SHALL BE CODED AS FOLLOWS:
    - PHASE 'A' - BLACK
    - PHASE 'B' - RED
    - PHASE 'C' - BLUE
    - NEUTRAL - WHITE
    - GROUND - GREEN
- COLORS ON CONDUCTOR 6 AWG AND SMALLER SHALL BE INTEGRAL PART OF INSULATION, ON CONDUCTOR 4 AWG AND LARGER CONDUCTORS, EITHER COLOR CODING TAPE OR PAINTED WITH TWO COATS OF CORRECT COLOR PAINT AT ALL TERMINALS AND CONNECTION POINTS. (1) UNLESS OTHERWISE REQUIRED BY APPLICABLE CODE. ALLOW A MAXIMUM VOLTAGE DROP IN BRANCH CIRCUITS OF 3% (THREE PERCENT)
- OUTLET BOXES SHALL BE GALVANIZED STEEL OR RUST RESISTANT MALLEABLE IRON ALLOY. OUTLET BOXES FOR WIRING DEVICES SHALL BE ONE PIECE STANDARD GANG BOX. IDENTIFY BOXES AS REQUIRED PER N.E.C. FOR EMERGENCY AND LIFE SAFETY CIRCUITS.
- PULL AND JUNCTION BOXES SHALL BE OF STEEL CONSTRUCTION, SPOT OF SEAM WELDED AT JOINTS AND HOT DIPPED GALVANIZED AFTER FABRICATION. IDENTIFY PULL AND JUNCTION BOXES AS REQUIRED PER N.E.C.
- SWITCHES AND DUPLEX CONVENIENCE RECEPTACLES SHALL BE OF SPECIFICATIONS GRADE, BACK OR SIDE WIRE, RATED AT 20 AMPS, 125 VOLTS, COLOR AS SELECTED BY ARCHITECT. DUPLEX RECEPTACLES SHALL BE U-SLOTTED GROUNDING TYPE; GFCI RECEPTACLES SHALL BE FEED THROUGH TYPE, WITH INTEGRAL NEMA WD 6, CONFIGURATION 5-20R DUPLEX RECEPTACLE TO PROTECT CONNECTED DOWNSTREAM RECEPTACLE, AND SWITCHES SHALL BE HEAVY DUTY OF THE QUIET TYPE. WALL PLATE SHALL MATCH CORRESPONDING WIRING DEVICE. PLATE - SECURING SCREWS SHALL BE METAL WITH HEAD COLOR TO MATCH PLATE FINISH. MATERIAL FOR WALL PLATE SHALL BE SMOOTH PLASTIC.
- COORDINATION WITH OTHER TRADES:
  - PROVIDE COMPLETE AND PROPERLY FUNCTIONING ELECTRICAL SYSTEMS FOR THIS PROJECT. VISIT THE PROJECT SITE, EXAMINE THE CONDITION OF THE PREMISES, THESE PLANS AND ALL CONTRACT DOCUMENTS AND SPECIFICATIONS RELATING TO THE AREA OF WORK. REPORT ANY DISCREPANCIES OR OMISSIONS IN THIS PLAN SET TO THE ENGINEER FOR RESOLUTION AND CLARIFICATION PRIOR TO SUBMISSION OF BIDS. BY SUBMITTING A BID ON THIS PROJECT, THE CONTRACTOR ACCEPTS THESE DOCUMENTS AS AN ADEQUATE DEFINITION OF THE SCOPE OF WORK. ADDITIONAL COSTS TO ACHIEVE THE INTENDED SCOPE OF WORK AS A RESULT OF ANY OF THESE CONDITIONS WILL NOT BE ACCEPTED.
  - SPECIAL ATTENTION SHALL BE GIVEN BUT NOT BE LIMITED TO NEW AND EXISTING SITE UTILITIES AND/OR FIELD CONDITIONS.
  - REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF LUMINAIRES (LIGHT FIXTURES).
  - VERIFY THE TYPE OF CEILING SYSTEM WITH THE GENERAL CONTRACTOR OR CEILING CONTRACTOR. PROVIDE LUMINAIRES (LIGHT FIXTURES) WHICH ARE COMPATIBLE WITH THE CEILING SYSTEM AND INCLUDE ALL REQUIRED MOUNTING ACCESSORIES AND HARDWARE.
  - ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH OTHER TRADES AND UTILITIES.
  - FINAL TESTING, ADJUSTMENTS AND ACCEPTANCE OF ELECTRICAL EQUIPMENT AND SYSTEMS:
    - INITIATE TESTING SCHEDULE AND CLEAR WITH ARCHITECT/ENGINEER AND/OR OWNER. DO NOT SCHEDULE OR TEST WITHOUT THIS CLEARANCE. FURNISH ARCHITECT/ENGINEER AND/OR OWNER WITH NAME OF PERSON WHO WILL BE IN CHARGE OF TESTING, ENERGIZING AND STARTING UP.
      - CONFER WITH ARCHITECT/ENGINEER AND/OR OWNER ON PROCEDURES TO BE FOLLOWED IN OBTAINING CLEARANCES FOR ELECTRICAL EQUIPMENT. ADHERE TO PROCEDURES AS FINALLY AGREED UPON.
    - COMPLETE TEST AND INSPECTION RECORDS AND INCORPORATE INTO A REPORT FOR EACH PIECE OF EQUIPMENT TESTED. RECORD ALL READINGS TAKEN. SUBMIT (4) COPIES TO ARCHITECT/ENGINEER AND/OR OWNER FOR REVIEW.
    - NOTIFY ARCHITECT/ENGINEER BY LETTER AT LEAST ONE WEEK PRIOR TO TEST, ESTABLISHING THE TIME TEST IS TO BE PERFORMED. PERFORM TESTS IN PRESENCE OF ARCHITECT/ENGINEER AND/OR OWNER.
    - FURNISH NECESSARY METERS, INSTRUMENTS, TEMPORARY WIRING AND LABOR TO PERFORM TESTS AND ADJUSTMENTS OF EQUIPMENT AND WIRING, INCLUDING ELECTRICAL EQUIPMENT FURNISHED BY OTHERS, TO DETERMINE PROPER POLARITY, PHASING, FREEDOM FROM GROUNDS AND SHORTS, RESISTANCE TO GROUND AND OPERATION OF EQUIPMENT. MEASURING INSTRUMENTS SHALL BE PROPERLY CALIBRATED AND CERTIFIED PRIOR TO USE.
    - DEMONSTRATE MATERIALS AND MANNER OF INSTALLATION TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF STATE AND LOCAL PUBLIC AUTHORITIES, THE UTILITY COMPANIES AND NFPA.
    - ENERGIZE EQUIPMENT FOLLOWING ESTABLISHED PROCEDURES AFTER CERTIFICATION BY THE CONTRACTOR THAT THE INSTALLATION IS SATISFACTORY.
  - GIRING:
    - CHECK SYSTEM AND EQUIPMENT GROUNDS FOR RESISTANCE USING THE MEGGER GROUND TESTER IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
    - INVESTIGATE CIRCUITS SHOWING INSULATION RESISTANCE LESS THAN MINIMUM VALUES GIVEN IN N.E.C. CORRECT WEAK POINTS.
    - CORRECT OR REPLACE NOMINAL CURRENT-CARRYING CIRCUITS WHICH ARE DEFECTIVE OR GROUNDED. CORRECT OTHER TROUBLES ENCOUNTERED IN THESE TESTS.
- BREAKERS: SET BREAKERS SO EQUIPMENT WILL BE IN PROPER OPERATING CONDITION BEFORE BEING PLACED IN SERVICE. PERFORM FINAL OPERATIONAL TESTS TO DETERMINE THAT WIRING CONNECTIONS ARE CORRECT.
- MOTORS:
  - MAKE THESE TESTS ON MOTORS BEFORE START-UP: CHECK MOTOR NAMEPLATES FOR HP, SPEED, PHASE AND VOLTAGE.
  - MAKE THESE TESTS ON MOTORS DURING START-UP:
    - CHECK SHAFT ROTATION BEFORE FINAL CONNECTIONS ARE MADE.
    - TAKE A CURRENT READING AT FULL LOAD USING A CLAMP-ON AMPMETER. IF AMPMETER READING IS OVER THE RATED FULL LOAD CURRENT, DETERMINE REASON FOR THE DISCREPANCY AND TAKE CORRECTIVE ACTION.
  - AFTER ALL CONNECTIONS ARE MADE, TEST MOTORS AND EQUIPMENT FOR PROPER OPERATION. INVESTIGATE CAUSE OF ANY MOTOR OPERATING ABOVE FULL LOAD RATING AND REMOVE CAUSE, OR REPORT TO ARCHITECT/ENGINEER AND/OR OWNER. CHECK ROTATION OF MOTORS.
  - MOTORS SHALL BE GROUNDED BY MEANS OF AN EQUIPMENT GROUNDING CONDUCTOR IN THE SAME RACENAY WITH MOTOR FEEDER CONNECTED TO A GROUNDING BUSHING AT THE MOTOR TERMINAL BOX AND THE INCOMING CONDUIT GROUNDING BUSHING OF INDIVIDUAL MOUNTED MOTOR STARTER. WHERE FLEXIBLE CONDUIT IS USED FOR ALL OR PART OF THE CONDUIT RUN PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR IN THE CONDUIT AND CONNECT TO GROUNDING BUSHINGS AT EACH END OF THE RUN.
- WIRING DEVICES:
  - TEST WIRING DEVICES FOR PROPER POLARITY AND GROUND CONTINUITY. OPERATE EACH DEVICE AT LEAST SIX TIMES.
  - TEST GFCI OPERATION WITH BOTH LOCAL AND REMOTE FAULT SIMULATIONS AS PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
- ACCEPTANCE: OBSERVATION OF THE OPERATION OF THE ELECTRICAL INSTALLATION AND EQUIPMENT BY THE ENGINEER AND/OR OWNER DOES NOT CONSTITUTE ACCEPTANCE OF THE WORK. ACCEPTANCE WILL BE MADE AFTER THE CONTRACTOR HAS ADJUSTED HIS EQUIPMENT, DEMONSTRATED THAT IT MEETS THE REQUIREMENTS OF THE CONTRACT DOCUMENT, AND HAS FURNISHED ALL THE REQUIRED CERTIFICATES.
- REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL WORK UNDER THIS CONTRACT NOT SHOWN IN THIS SET OF CONTRACT DOCUMENTS PROVIDING ACCORDINGLY.
- ALL ELECTRICAL WORK SHALL BE INSTALLED CONCEALED UNLESS OTHERWISE NOTED.
- EXISTING CONDITIONS: (WHERE APPLICABLE)
  - ALL WORK HEREIN DESCRIBED AND SHOWN ON DRAWINGS AND REQUIRED TO MAKE PROJECT COMPLETE IN EVERY RESPECT, PLUS ANY AND ALL PATCHING NECESSARY SHALL BE DONE TO THE COMPLETE SATISFACTION OF THE ARCHITECT/ENGINEER AND/OR OWNER AND SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. ALL MATERIALS SHALL MATCH EXISTING WHERE APPLICABLE AND ALL CONSTRUCTION AND ALTERATION LEFT IN NEW CONDITION.
  - CONNECTIONS TO EXISTING ELECTRICAL POWER SYSTEM SHALL BE IN COMPLIANCE WITH NEC 220.87 EXCEPT ASCERTAIN TO OBTAIN MEASURES ON AVERAGE POWER DEMAND FROM THE FACILITY PLANT PERSONNEL IF NOT, ENSURE TO PERFORM SUCH MEASUREMENT PRIOR TO ANY WORK. SUBMIT DISCREPANCIES AND DIFFERENCES TO OWNER REPRESENTATIVE FOR CONSIDERATION AND DECISION BEFORE PROCEEDING.
  - ALL ITEMS TO BE REMOVED SHALL BE REMOVED WITH UTMOST CARE AND WITHOUT DAMAGE AND THOSE ITEMS NOT DESIGNATED TO BE REUSED SHALL BE DELIVERED TO THE OWNER OR DISPOSED OF AS PER HIS WRITTEN INSTRUCTIONS.
  - ALL ALTERATIONS, DEMOLITION AND REMOVAL, CUTTING AND PATCHING AND OTHER WORK NECESSARY FOR CONSTRUCTION OF THIS CONTRACT SHALL BE PERFORMED WITHOUT ADDITIONAL COST TO THE OWNER. THIS SHALL INCLUDE REMOVAL, REROUTING, ETC. OF ALL ELECTRICAL ITEMS REQUIRED TO COMPLETE INSTALLATION INTENDED.
  - PATCH OR REPLACE ALL DAMAGED FLOOR, WALL, CEILING, ETC. SURFACES EXTERIOR TO ACCOMMODATE THE NEW CONSTRUCTION. PATCHED SURFACES SHALL MATCH EXISTING ADJACENT SURFACES.
  - ALL CUTTING, PATCHING, DEMOLITION, REPAIRING, REPLACING ETC. NECESSARY UNDER THIS CONTRACT SHALL BE COORDINATED BY THE GENERAL CONTRACTOR. WHERE APPLICABLE COORDINATE WORK WITH UTILITY COMPANIES, LOCAL AND STATE AUTHORITIES HAVING JURISDICTION, OWNER'S REPRESENTATIVES AND ALL APPLICABLE CODES.
  - WHERE ALTERATIONS TAKE PLACE IN OCCUPIED AREAS, CONTRACTOR SHALL CLEAN UP DAILY, AND NOISE SHALL BE KEPT TO A MINIMUM.
  - NONE OF THE SERVICES TO EXISTING BUILDINGS SHALL BE DISRUPTED IN ANY WAY EXCEPT WITH THE WRITTEN PERMISSION OF THE OWNER.
  - WHERE DEVICES OR LUMINAIRES ARE SHOWN TO BE REMOVED OR REPLACED ON PLANS, REMOVE OR RECONNECT ALL ASSOCIATED WIRING AND CONDUIT BACK TO THE SOURCE OR MAINTAIN CONTINUITY OF THE CIRCUIT IF OTHER LOADS ARE SERVED FROM THE SAME CIRCUIT. CONSOLIDATE PARTIALLY LOADED BRANCH CIRCUITS TO MAXIMIZE SPACE MADE AVAILABLE AT THE PANELBOARD. TRACE CONSOLIDATED CIRCUITS TO VERIFY THAT THE TOTAL LOAD DOES NOT EXCEED 1920 VOLT AMPERES.
  - EXECUTE ALL WORK IN SUCH A MANNER TO AVOID INTERFERENCE WITH THE USE OF PASSAGE TO AND FROM ADJOINING BUILDING OR AREAS.
  - THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGE TO EXISTING BUILDING AND TO CONTENTS THEREOF INCLUDING MACHINERY, FURNITURE, EQUIPMENT, ETC., DAMAGE TO BUILDINGS OR CONTENTS THEREOF DUE TO CONTRACTOR OPERATIONS SHALL BE REPAIRED OR REPLACED AT DIRECTION OF ARCHITECT/ENGINEER AND/OR OWNER, BY THE CONTRACTOR AT NO EXTRA COST TO THE OWNER.
  - CONNECTION TO EXISTING STRUCTURES OR SYSTEMS SHALL BE MADE IN SUCH A MANNER THAT AS LITTLE TIME AS ABSOLUTELY POSSIBLE WILL BE TAKEN, AND CONTRACTOR WILL BE REQUIRED TO COORDINATE FULLY WITH OWNER IN CONNECTION WITH CONVENIENCE AND SAFETY OF ALL PERSONS INVOLVED, INCLUDING EMPLOYEES.
  - CONTRACTOR SHALL COORDINATE ALL WORK WITH OWNER TO DETERMINE OWNER'S REQUIREMENTS REGARDING ACCESS, TIME OF WORK, PROTECTION OF EXISTING CONDITIONS, ETC.
  - ALL FIRE ALARM DEVICE WORK, SHALL BE COORDINATED WITH ARCHITECT/ENGINEER AND/OR OWNER. ALL WORK AT BUILDING FIRE ALARM SYSTEM UNDER THIS CONTRACT, SHALL BE DONE UNDER A SUPERVISED AND CERTIFIED PERSONNEL BY THE BUILDING FIRE ALARM UNIT MANUFACTURER-INSTALLER. VERIFY WITH U.S.P.S. MAINTENANCE REPRESENTATIVE BEFORE ROUGHING-IN (WHEN APPLICABLE). FIRE ALARM SYSTEM WORK PERFORMANCE, SEQUENCE OF OPERATION AND MATERIALS SHALL COMPLY WITH NFPA 72, U.S.P.S. SPEC., U.S.P.S. STANDARD DESIGN CRITERIA FIRE PROTECTION SYSTEM SECTION 5-5 AND UNIT MANUFACTURER RECOMMENDATIONS.
  - ELECTRICAL CONTRACTOR SHALL PROVIDE REQUIRED ARC-FLASH HAZARD WARNINGS MARKING LABELS TO ALL SWITCHBOARDS, PANELS, CONTROL PANELS, ETC. TO COMPLY WITH NEC ART 110.16 REQUIREMENTS.
  - CONTRACTOR SHALL FURNISH ALL WORK AND MATERIALS NECESSARY FOR A COMPLETE AND SATISFACTORY INSTALLATION OF THE ELECTRICAL SERVICE, AS REQUIRED BY THE LOCAL UTILITY COMPANY, REFER TO U.S.P.S. SPECIFICATIONS.

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SYMBOL LEGEND	
SYMBOL	DESCRIPTION
<b>LIGHTING</b>	
SYMBOL DESCRIPTION	
	CEILING MTD./WALL MTD. FLUORESCENT OR H.I.D. LUMINAIRE (LIGHT FIXTURE). LETTERS - DENOTE TYPE, NUMBER - DENOTES CIRCUIT NUMBER
	CEILING MTD./WALL MTD. FLUORESCENT OR H.I.D. LUMINAIRE (LIGHT FIXTURE) ON EMERGENCY CIRCUIT. LETTERS - DENOTE TYPE, NUMBER - DENOTES CIRCUIT NUMBER
	CEILING MTD. (RECESSED/SURFACE) FLUORESCENT LUMINAIRE (LIGHT FIXTURE). LETTERS - DENOTE TYPE, NUMBER - DENOTES CIRCUIT NUMBER, a - DENOTES SWITCH CONTROL
	CEILING MTD. (RECESSED/SURFACE) FLUORESCENT LUMINAIRE (LIGHT FIXTURE) ON EMERGENCY CIRCUIT. LETTERS - DENOTE TYPE, NUMBER - DENOTES CIRCUIT NUMBER
	CEILING MTD. (RECESSED/SURFACE)/WALL MTD. FLUORESCENT LUMINAIRE (LIGHT FIXTURE). LETTERS - DENOTE TYPE, NUMBER - DENOTES CIRCUIT NUMBER, a - DENOTES SWITCH CONTROL
	CEILING MTD. (RECESSED/SURFACE)/WALL MTD. FLUORESCENT LUMINAIRE (LIGHT FIXTURE) ON EMERGENCY CIRCUIT. LETTERS - DENOTE TYPE, NUMBER - DENOTES CIRCUIT NUMBER
	CEILING MTD. FLUORESCENT OR H.I.D. LUMINAIRE (LIGHT FIXTURE) WALL WASHED. LETTER DENOTES TYPE, NUMBER DENOTES CIRCUIT NUMBER
	EMERGENCY BATTERY LIGHT WITH SELF-CONTAINED BATTERIES. CONNECT AHEAD OF LIGHT SWITCH.
	FLOODLIGHT LUMINAIRE (LIGHT FIXTURE) FOR EXTERIOR BUILDING ILLUMINATION.
	CEILING MTD./WALL MTD. EXIT LUMINAIRE (LIGHT FIXTURE). ARROWS - DENOTE DIRECTION, AS SHOWN ON DWGS. LETTERS - DENOTE TYPE, NUMBER - DENOTES CIRCUIT NUMBER
<b>WIRING DEVICES</b>	
SYMBOL DESCRIPTION	
	20A, 125V, 3 WIRES GROUNDING TYPE DUPLEX RECEPTACLE 457 mm. (18") A.F.F. GFI - GND FAULT INTERRUPTER, WP - WEATHERPROOF.
	20A, 125V, 3 WIRES GROUNDING TYPE DUPLEX RECEPTACLE 1.2 m. (4'-0") A.F.F. OR 6" ABOVE COUNTER
	20A, 125V, 3 WIRES GROUNDING TYPE DUPLEX RECEPTACLE 457 mm. (18") A.F.F. SERVED FROM NON-LINEAR PANEL
	20A, 125V, 3 WIRES GROUNDING TYPE SINGLE RECEPTACLE 457 mm. (18") A.F.F.
	20A, 125V, 3 WIRES GROUNDING TYPE TWO DUPLEX RECEPTACLE IN A TWO GANG BOX 457 mm. (18") A.F.F. GFI - GND FAULT INTERRUPTER, WP - WEATHERPROOF.
	20A, 250V, 3 WIRES GROUNDING TYPE SINGLE RECEPTACLE 457 mm. (18") A.F.F.
	30A, 250V, 3 WIRES GROUNDING TYPE SINGLE RECEPTACLE 457 mm. (18") A.F.F.
	20A, 125V, 3 WIRES GROUNDING TYPE DUPLEX RECEPTACLE, CEILING MOUNTED FOR CEILING PROJECTOR
	PLUGMOLD - SURFACE MOUNTED AS PART OF MILLWORK. SEE ARCH. DETAIL FOR MOUNTING
	20A, 277 VOLTS SINGLE POLE TOGGLE SWITCH 1.2 m. (4'-0") A.F.F. LETTER - DENOTES LIGHTS SWITCHED
	20A, 277 VOLTS THREE WAY SWITCH 1.2 m. (4'-0") A.F.F. 20A, 277 VOLTS FOUR WAY SWITCH 1.2 m. (4'-0") A.F.F.
	DOUBLE SWITCH CONTROL. SEE DETAIL ON SHEET E-
	PILOT LIGHT SWITCH, OVERRIDDEN BY OCCUPANCY SENSOR WHEN IN 'OFF' POSITION
	LIGHT SWITCH FOR LUMINAIRES (LIGHT FIXTURES) CONNECTED TO EMERGENCY BRANCH VIA EMERGENCY RELAY. RELAY SHALL BE MOUNTED DIRECTLY ABOVE IN CEILING SPACE. REFER TO DETAIL ON SHEET E-XXX. COLOR OF SWITCH: RED
	PILOT LIGHT SWITCH TO CONTROL GROUP STUDENT AND PUBLIC TOILETS. (LC20)- DENOTES LIGHTING CONTACTOR NUMBER. REFER TO ILLUMINATION CONTACTOR SCHEDULE
	MANUAL MOTOR STARTER SWITCH WITH OVERLOAD PROTECTION
	OCCUPANCY SENSOR WITH OVERRIDE SWITCH, CEILING MOUNTED TO OVERRIDE PILOT LIGHT SWITCHES CONTROLLING CORRIDORS ILLUMINATION IN CUSTODIAL ROOMS WHEN IN 'OFF' POSITION

SYMBOL LEGEND	
SYMBOL	DESCRIPTION
<b>DISTRIBUTION</b>	
SYMBOL DESCRIPTION	
	WALL MOUNTED/ABOVE HUNG CEILING - JUNCTION BOX
	JUNCTION BOX AND DIRECT CONNECTION TO EQUIPMENT AS INDICATED ON PLANS
	DISCONNECT SWITCH: 3 - NUMBER OF POLES, 100 - SWITCH SIZE, 0 - FUSE SIZE (NO FUSE), # - FUSE SIZE AS PER MANUFACTURER OF EQUIPMENT RECOMMENDATIONS. HEAVY DUTY TYPE WITH LOCKABLE POSITION
	MAGNETIC MOTOR STARTER FURNISHED BY OTHER SECTION OF SPECIFICATIONS, INSTALLED BY ELECTRICAL CONTRACTOR
	MOTOR: NUMBER - HORSEPOWER
	SHUNT TRIP PUSHBUTTON 1.2 m. (4'-0") A.F.F.
	TIME CLOCK
	PULL BOX
	ENCLOSED CIRCUIT BREAKER (1.5 m. (5'-0") A.F.F.) SIZE AND RATING AS INDICATED ON PLANS
	DRY TYPE TRANSFORMER SIZE AND MOUNTING AS INDICATED IN TRANSFORMER SCHEDULE
	AUTOMATIC TRANSFER SWITCH
	VARIABLE FREQUENCY DRIVE, FURNISHED BY DIV. 15 AND INSTALLED BY DIV. 16
	DIGITAL CONTROL PANEL - PROVIDED BY EMS CONTRACTOR, POWERED BY ELECTRICAL CONTRACTOR.
	VARIABLE VOLUME BOX FAN AND HEATER
	LIGHTING, POWER OR DISTRIBUTION PANEL, SURFACE MOUNTED SERVED FROM EMERGENCY POWER.
	LIGHTING, POWER OR DISTRIBUTION PANEL, SURFACE MOUNTED SERVED FROM NORMAL POWER.
	HOMERUN TO PANEL (U.O.N. 12 AWG IN 2(3/4") CONDUIT MARKS DENOTE - NUMBER OF WIRES (HOT OR SWITCH LEGS) LONG MARK - NEUTRAL, NO MARK - NEUTRAL # ONE HOT WIRE DARK CIRCLE SYMBOL - GREEN GROUND
	ENERGY MANAGEMENT AND CONTROL SYSTEM PANEL FURNISHED BY EMS CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. EXACT LOCATION TO BE COORDINATED WITH EMS CONTRACTOR.
	BRANCH CIRCUIT DESIGNATION FOR CONNECTIONS OF ELECTRICAL DEVICES IN THE ROOM OR AREA. 'N' - DENOTES NORMAL POWER BRANCH CIRCUIT 'E' - DENOTES EMERGENCY POWER BRANCH CIRCUIT 'C' - DENOTES NORMAL POWER FOR NON-LINEAR RECEPTACLES
	BRANCH CIRCUIT OR FEEDER EXPOSED
	BRANCH CIRCUIT OR FEEDER UNDERGROUND
	BRANCH CIRCUIT OR FEEDER CONCEALED IN CLG. WALL OR SLAB
	FLEXIBLE CONDUIT (NO LONGER THAN 1.8 m. (6'-0"))
	CONDUIT STUB-UP
	CONDUIT STUB-DOWN
	UNDERGROUND PULL BOX 'P' - DENOTES 'POWER', 'C' - DENOTES 'COMMUNICATIONS' (VOICE/DATA)
	FOUR-WAY MANHOLE 'P' - DENOTES 'POWER', 'C' - DENOTES 'COMMUNICATIONS' (VOICE/DATA)
	DENOTES AMOUNT OF CONDUITS IN DUCT BANK
<b>COMMUNICATIONS</b>	
SYMBOL DESCRIPTION	
	TELEPHONE BACKBOARD, 4' x 8' x 3/4" EXTERIOR PLYWOOD PAINTED GREY.
	COMBINATION TELEPHONE (VOICE) AND DATA OUTLET 457 mm (18") A.F.F.

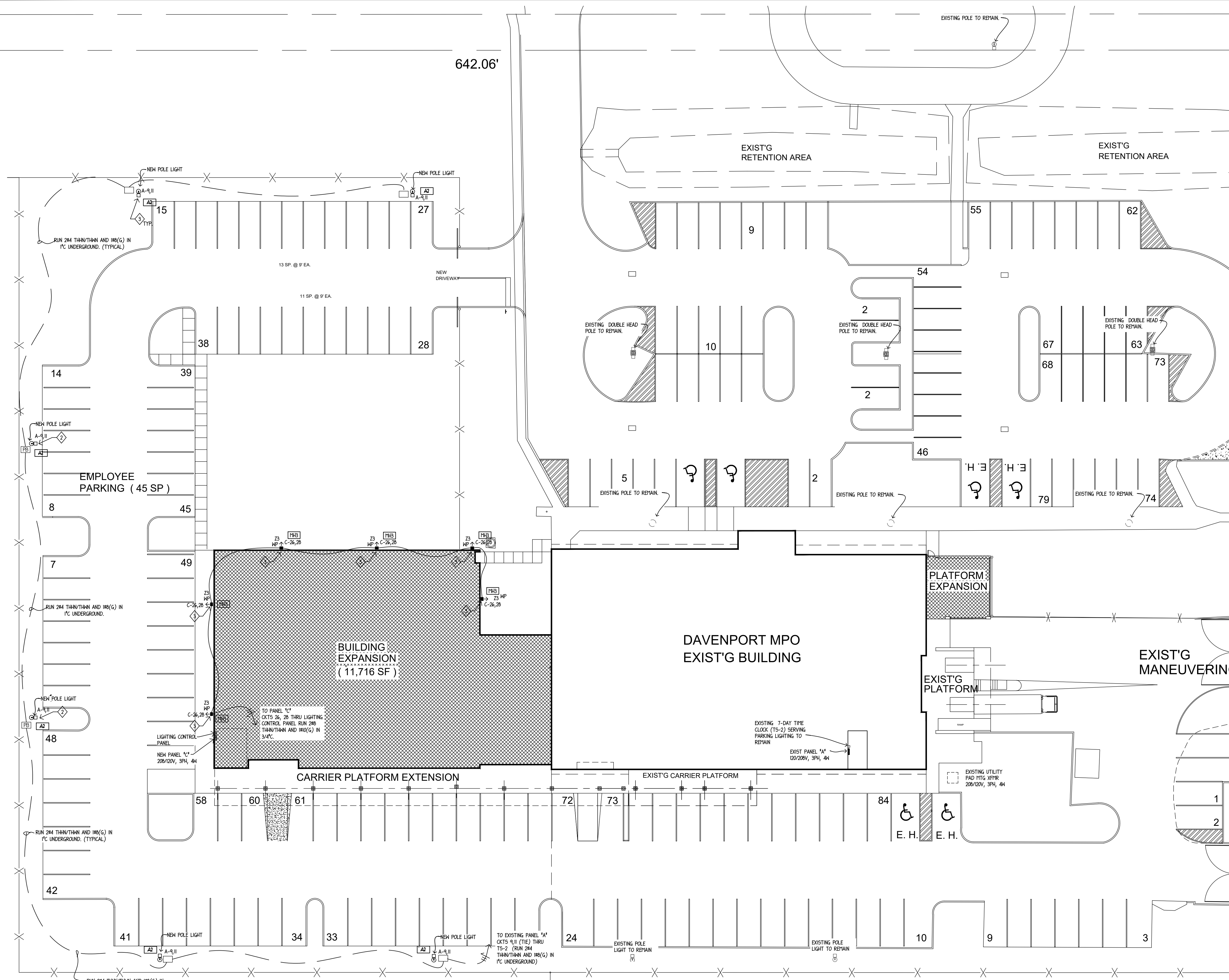
SYMBOL LEGEND	
SYMBOL	DESCRIPTION
<b>FIRE ALARM SYSTEM</b>	
SYMBOL DESCRIPTION	
	FIRE ALARM FLASHING/STROBE LIGHT - NUMBER DENOTES Cd's (WALL MOUNTED AT 2.03 m. (6'6") A.F.F.)
	FIRE ALARM FLASHING / STROBE LIGHT WITH SPEAKER - NUMBER DENOTES Cd's WALL MOUNTED, AT 2.03 m. (6'6") A.F.F. TO E
	FIRE ALARM SYSTEM MANUAL PULL STATION FLUSH MOUNTED 1.2 m (4'-0") A.F.F. TO E
	FIRE ALARM PHOTOELECTRIC SMOKE DETECTOR CEILING MOUNTED
	FIRE ALARM DUCT TYPE SMOKE DETECTOR
	FIRE ALARM HEAT DETECTOR CEILING MOUNTED
	FIRE ALARM SYSTEM CONTROL PANEL - TOP OF CABINET 1.8 m. (7'2") A.F.F.
	FIRE ALARM ANNUNCIATOR PANEL
	FIRE ALARM SYSTEM - MAGNETIC DOOR HOLDER FLOOR OR WALL MOUNTED AS REQUIRED
	FIRE ALARM DUCT DETECTOR REMOTE INDICATOR/TEST DEVICE WITH KEY OPERATED SWITCH
	POST INDICATOR VALVE
	NOTIFICATION APPLIANCES CIRCUIT EXTENDED PANEL, IDNET
	MONITOR INDIVIDUAL ADDRESS MODULE CONNECT TO N/O CONTACTS ONLY
	MPX SIGNAL ZAM CLASS B FL MAP2
	MPX CONTROL ZAM SURF MAP2
	RELAY, SPDT WITH LED LAMP
	FIRE ALARM CONTROL RELAY TO ACTIVATE SMOKE AND/OR FIRE/SMOKE DAMPERS WITH FIRE ALARM SYSTEM. EXACT LOCATION OF SMOKE AND/OR FIRE/SMOKE DAMPERS TO BE COORDINATED WITH HVAC DRAWINGS AND APPROVED SHOP DRAWINGS.

SYMBOL LEGEND	
SYMBOL	DESCRIPTION
<b>AUXILIARY SYSTEMS</b>	
SYMBOL DESCRIPTION	
	PROXIMITY CARD READER, MOUNT 150mm (4 1/2") A.F.F. (DEVICE BY OWNER). SEE MOUNTING DETAIL ON SHEET E-
	PROXIMITY CARD READER INTERFACE BOX. SEE WIRING SCHEME DETAIL FOR ELEVATOR
	CAMERA LOCATION (DEVICE AND WIRE BY OWNER). PROVIDE JUNCTION BOX ABOVE CEILING SPACE. MOUNT JUNCTION BOX 457mm (18") ABOVE FINISH CEILING SPACE ON WALL. REFER TO RISER ON SHEET E-XXX FOR RACEWAY SYSTEM LAYOUT OF CAMERA JUNCTION BOXES.
	SECURITY SYSTEM JUNCTION BOX, WALL MOUNTED 225mm (9") A.F.F. TO TOP OF BOX FOR OWNER SUPPLIED INTRUSION DETECTION DEVICE. 100mm (4") SQUARE X 53mm (2 1/8") DEEP BOX LOCATED 300 mm (12") ON EITHER SIDE OF CLOCK. REFER TO RISER ON SHEET E-XXX FOR RACEWAY SYSTEM LAYOUT OF JUNCTION BOXES.
	INTRUSION DETECTION SYSTEM TERMINAL CABINET. 900mm (36") x 900mm (36") x 150mm (6") DEEP WITH 12.5mm (1/2") PLYWOOD BACKING.
	VIDEO SURVEILLANCE SYSTEM TERMINAL CABINET. 900mm (36") x 900mm (36") x 150mm (6") DEEP WITH 12.5mm (1/2") PLYWOOD BACKING.
	CARD ACCESS SYSTEM TERMINAL CABINET. 900mm (36") x 900mm (36") x 150mm (6") DEEP WITH 12.5mm (1/2") PLYWOOD BACKING.
	CLOCK OUTLET, WALL MOUNTED
	INTERCOM CALL BUTTON
	COMBINATION INTERCOM CALL BUTTON/VOLUME CONTROL AND SPEAKER
	CEILING MOUNTED JUNCTION BOX FOR CEILING PROJECTOR. SEE DETAIL IN SHEET E-XXX FOR WIRING REQUIREMENTS.
	FOUR GANG WALL BOX WITH A SINGLE COVER PLATE BEHIND MULTIMEDIA CABINET LOCATION. REFER TO DETAILS IN SHEET E5.2.02 FOR WIRING AND DEVICES IN EACH BOX. MOUNTING HEIGHT 457 mm (18") A.F.F. BACK TO BACK BOXES ARE NOT ALLOWED.
	CAFETERIA MEDIA CABINET. FOUR GANG WALL BOX WITH A SINGLE COVER PLATE. SAME DETAIL AS FOR THE MEDIA CABINET BOX IN CLASS ROOM.
	FOUR GANG WALL BOX WITH A SINGLE COVER PLATE AT TEACHER'S DESK. REFER TO DETAILS IN SHEET E5.2.02 FOR WIRING AND DEVICES IN EACH BOX. MOUNTING HEIGHT 457 mm (18") A.F.F. BACK TO BACK BOXES ARE NOT ALLOWED.
	JUNCTION BOX ABOVE HUNG CEILING FOR FUTURE WIRELESS COMMUNICATION SYSTEM.
	ITV OUTLET
	ORIGINATION ITV OUTLET
	INTERCOM ADMINISTRATIVE TELEPHONE OUTLET
	PAGING SOUND SPEAKER CEILING MOUNTED
	INTERCOM SPEAKER CEILING MOUNTED

ABBREVIATIONS	
SYMBOL	DESCRIPTION
A	AMPERE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AIC	SHORT CIRCUIT CURRENT RATING (SYMMETRICAL OR AMPERE INTERRUPTING RATING)
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
BMS/EMS	BUILDING/ENERGY MANAGEMENT SYSTEM
BRKR	BREAKER
C, CND	CONDUIT
CKT	CIRCUIT
CB, CKT BRKR	CIRCUIT BREAKER
CLG	CEILING
CM	COLD WATER
DISC	DISCONNECT
DWG	DRAWING
EC	EMPTY CONDUIT
EDH	ELECTRIC DUCT HEATER
ELEC	ELECTRIC(AL)
EPRF	EXPLOSION PROOF
EMC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EXH	EXHAUST
EF, EXH FN	EXHAUST FAN
EXIST	EXISTING
FA	FIRE ALARM
FCP	FIRE ALARM CONTROL PANEL
FCU	FAN COIL UNIT
FLR	FLOOR
FLUOR	FLUORESCENT
FPB	FAN POWER BOX
FU	FUSE
FXTR	FIXTURE
G, GND	GROUND
GEN	GENERATOR
GFI	GROUND FAULT INTERRUPTER
HID	HIGH INTENSITY DISCHARGE (ILLUMINATION)
HOA	HAND-OFF-AUTO
HP	HORSEPOWER
HT	HEIGHT
HVAC	HEATING, VENTILATION, AIR CONDITIONING
IC	INTERRUPTING CAPACITY
INCAND	INCANDESCENT
JB, J BOX	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
LT	LIGHT
LUM	LUMINAIRE (LIGHT FIXTURE)
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MH	MANHOLE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
m.	METER
mm.	MILLIMETER
MT	MOUNT
MTD	MOUNTED
MTG	MOUNTING
NL	NIGHT LIGHT
OL'S	OVERLOADS
PB	PUSH BUTTON
PH, #	PHASE
PNL	PANEL
PWR	POWER
RECEPT	RECEPTACLE
RENOV	RENOVATION
SHT	SHEET
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
SYM	SYMBOL
TEL	TELEPHONE
THRU	THROUGH
TYP	TYPICAL
UNO	UNLESS INDICATED OTHERWISE
UNOT	UNLESS OTHERWISE NOTED
V	VOLTS
VAV	VARIABLE AIR VOLUME BOX
W	WITH
WHTR	WATER-HEATER
WP	WEATHER PROOF
XFMR	TRANSFORMER

NOTE: NOT ALL SYMBOLS AND ABBREVIATIONS LISTED APPLY TO THIS PROJECT. REFER TO CONSTRUCTION DOCUMENTS FOR SCOPE OF WORK.





**SITE PLAN  
POWER SERVICE AREA**

SCALE: 1/16"=1'-0"

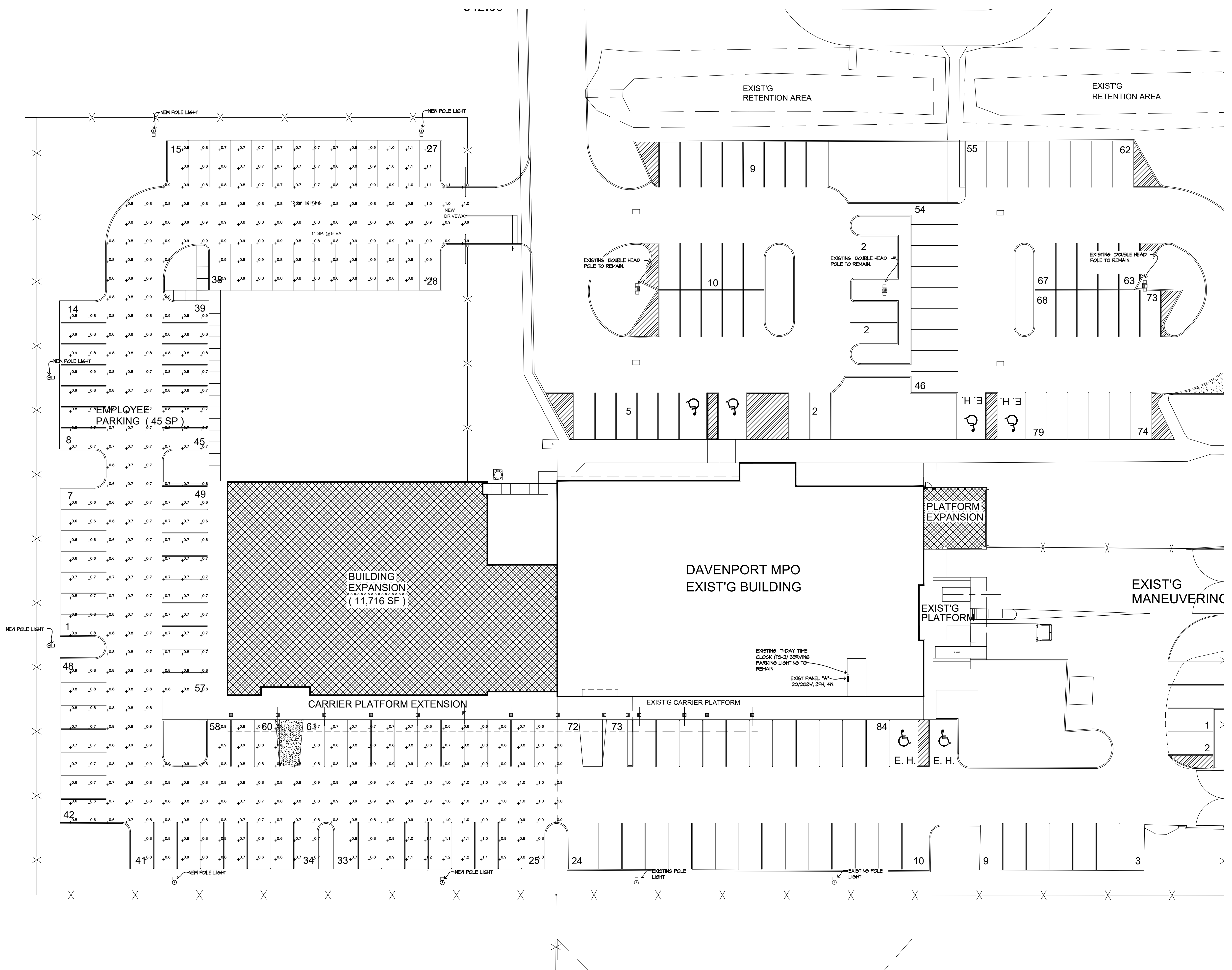
TYPE	DESCRIPTION	LAMPS	MANUFACTURER CATALOG No.	VOLTS	LUMENS/WATTS	MOUNTING/HEIGHT	APPROVED MANUFACTURER	REMARKS
2	A2	CARRIER/SERV. LED AREA LIGHTING FIXTURE AND POLE	LED-80CRI-P3-40K TFTM FORWARD THROU	120V (208V)	12,575 / 102	POLE-BASE / 29'	SPECS. APPROVED	26FT NOM. HT. SQUARE ALUMINUM POLE MFG. BY LITHONIA. MOD# 55A-26-6J-BL OR EQUIV. (COLOR TO MATCH EXISTING) (2)
6	MH3	EXTERIOR WALL FIXTURE	CROSSTOUR 26W WALL MOUNTED LED	208V	2100 / 18	WALL / 14'-0" A.F.F.	SPECS. APPROVED	

NOTES:  
(1) ALL LIGHT FIXTURE MANUFACTURER AND TYPE TO COMPLY WITH U.S.P.S. DESIGN CRITERIA AND SPECIFICATIONS.

- 1 ALL WORK LIGHT FIXTURES TYPE, MANUFACTURER AND INSTALLATION SHALL COMPLY WITH U.S.P.S. STANDARD DESIGN AND SPECIFICATIONS EXTERIOR LIGHTING SECTION 266600
- 2 AREA LIGHTING CONTROL AND WIRING: SERVICE/EMPLOYEE AREA PARKING SHALL BE WIRED TO EXISTING LOCAL CIRCUITS AND THRU EXISTING CONTACTORS/TIME CLOCKS.
- 3 FOR SITE PLAN EXTERIOR LIGHT FIXTURES SCHEDULE REFER TO THIS DRAWING. FOR TYPICAL POLE DETAIL, BASE AND PULL-BOX DETAIL AND SIZE REFER TO DETAIL DRAWING E-4.01
- 4 PROVIDE EQUIPMENT GROUND AND BONDING AS PER N.E.C. 250. FURNISH A GREEN GROUND WIRE TO ALL EXTERIOR LIGHTING CIRCUITS. CONTRACTOR SHALL PROVIDE GROUND BONDING TO METAL POLES AS REQUIRED, REFER TO DETAIL DRAWING E-4.01.
- 5 PROVIDE EXTERIOR LIGHT POLES, AREA FIXTURES ETC. WITH AN IN-LINE FUSES FOR SERVICE AND PROTECTION, SIZE AS RECOMMENDED BY MANUFACTURER.
- 6 PROVIDE A NEW 26 FT HARCO CATALOG NUMBER RTA26D6M4 OR EQUIVALENT AS SHOWN IN FIXTURE SCHEDULE AND/OR LIGHTING SPECS., FINISH TO MATCH EXISTING. CONTRACTOR SHALL VERIFY REQUIRED LIGHT FIXTURE MOUNTING TYPE AND PROVIDE ALL ADEQUATE STEMS, BASES, TENONS, LIGHTING BASE SUPPORTS, TRIMS, LEVELERS, BOLT HARDWARE ETC. REQUIRED FOR A COMPLETE POLE/LIGHT INSTALLATION, AS APPLICABLE.

1. ALL WORK SHALL BE DONE IN ACCORDANCE TO LATEST N.E.C. AND LOCAL CODES AND ORDINANCES. CONTRACTOR SHALL COMPLY WITH U.S.P.S. LATEST STANDARD DESIGN CRITERIA (HANDBOOK AS-503). SEE INSTALLATION METHODS AND APPROVED MANUFACTURERS.
2. LIGHT FIXTURE LAYOUTS INDICATED ON THE PLANS ARE SHOWN FOR REFERENCE ONLY WITH UNIT MANUFACTURERS AND MODELS AS SHOWN. FINAL EXACT FIXTURE LOCATIONS SHALL BE DETERMINED AT FIELD WITH EXISTING CONDITIONS, BUILDING STRUCTURE, EQUIPMENT, UNDERGROUND RACEWAYS, PIPING ETC.
3. FOR PANEL SCHEDULE(S) AND RISER DIAGRAM REFER TO DRAWINGS E-5.01 TO AND E-5.02
4. ALL PANEL DIRECTORIES SHALL BE TYPED WRITTEN DESCRIBING ALL CIRCUITS AS SHOWN ON PANEL SCHEDULES.
5. PROVIDE EQUIPMENT GROUND AND BONDING AS PER N.E.C. 250. FURNISH A GREEN GROUND WIRE TO ALL LIGHTING CIRCUITS.
6. PROVIDE UL LISTED FIRE STOPPING AT ALL PENETRATIONS THROUGH RATED PARTITIONS/WALLS/ROOFS.
7. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL ELECTRICAL DEMOLITION AT SITE AREAS AS REQUIRED AS SHOWN ON PLANS. REMOVE ALL RACEWAYS, CONDUCTORS, J-BOXES, DEVICES, ETC NECESSARY FOR A COMPLETE AND SATISFACTORY INSTALLATION.
8. ALL MATERIALS, DEVICES, FIXTURES SHALL BE LISTED AND BEAR WITH THE STANDARDS OF UNDERWRITERS LABORATORIES (U.L.) OR ANY APPROVED NATIONALLY RECOGNIZED LABORATORY





ZONE	SERVICE AREA
AVERAGE (FC)	0.8
MAXIMUM (FC)	1.2
MINIMUM (FC)	0.5
MAX / MIN	2.4 : 1
AVE / MIN	1.6 : 1
AVE. REQ. (FC)	0.5

NOTE:  
PHOTOMETRIC LEVELS CALCULATED  
AND SHOWN WITH ALL ZONES TUNED  
ON (AT 100% LIGHTING LEVEL)

SITE PLAN  
FOOT-CANDLE LIGHTING  
SCALE: 1/16"=1'-0"

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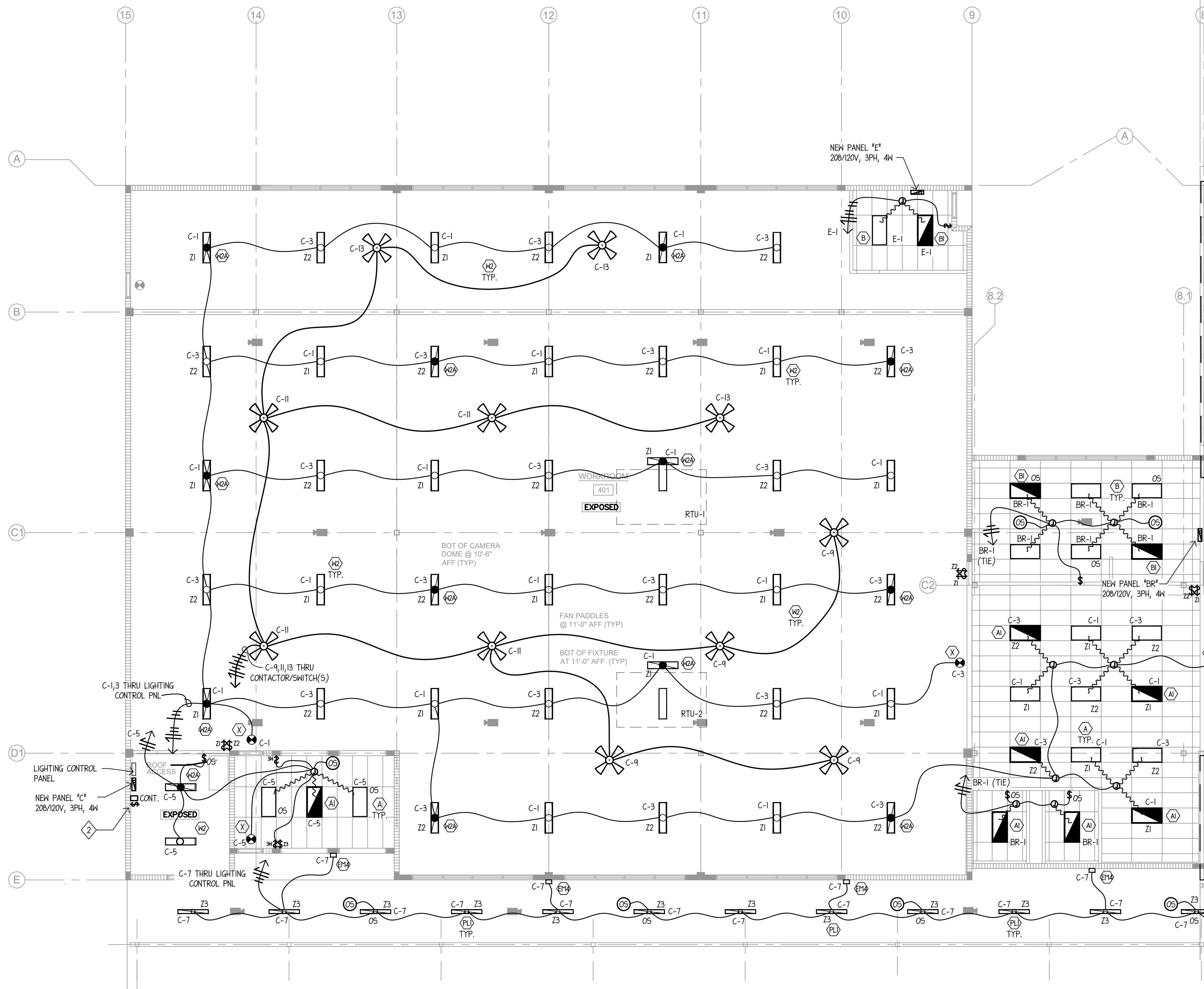
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 Revisions:





FLOOR PLAN LIGHTING WEST  
 SCALE: 1/8"=1'-0"

**ELECTRICAL NEW WORK KEY NOTES**

- 1 DENOTES REFER TO LIGHT FIXTURE SCHEDULE THIS DRAWING. LIGHT FIXTURE TYPE "X2"
- 2 PROVIDE A W/O CONTACTOR SERVING CEILING FANS AT WORKROOM AREA. PROVIDE A CONTROL SWITCH LOCATED AT WORKROOM AREA, ELECTRICAL ROOM AREA OR AS DIRECTED BY U.S.P.S. REPRESENTATIVE, COORDINATE BEFORE ROUGHING-IN. INTERLOCK CONTACTOR WITH FA SEQUENCE OF OPERATION SHUT DOWN SIGNAL TO OVERRIDE INTERIOR FANS. (FIRE ALARM INTERFACE)
- 3 EXTERIOR OPEN PLATFORMS- THE LIGHTING WITHIN EXTERIOR, MAIL AND CARRIER PLATFORMS (AMBIENT LIGHTING) MUST BE PROVIDED WITH BI-LEVEL CONTROL (0%, 50% TO 100%). PROVIDE OCCUPANCY SENSOR WITHIN THE AREA TO REDUCE LIGHTING LEVEL TO 50%, CIRCUIT WIRED THRU CONTROL PANEL PHOTO-SENSOR THAT SHALL BE AUTOMATICALLY OVERRIDE THE EXTERIOR LIGHT CIRCUITS FROM ANY LEVEL TO 0% (OFF). (DESIGN CRITERIA SECC 5-3.1.3)
- 4 COORDINATE EXACT LIGHT FIXTURE LOCATIONS WITH STRUCTURE AND ARCHITECT PLANS. ALL WORK SHALL BE DONE AS PER ELECTRICAL SPECS INTERIOR LIGHTING SECTION 265100
- 5 CONTRACTOR SHALL WIRE EXIT AND EMERGENCY FIXTURES BATTERY CHARGERS, TO A LOCAL LIGHT CIRCUIT AND AHEAD OF ANY LOCAL SWITCH-CONTROL CIRCUIT "ON ALL TIMES" TO MAINTAIN BATTERY CHARGE.

**NOTES TO CONTRACTOR**

- 1. ALL WORK SHALL BE DONE IN ACCORDANCE TO LATEST N.E.C. AND LOCAL CODES AND ORDINANCES. CONTRACTOR SHALL COMPLY WITH U.S.P.S. INSTALLATION METHODS AND APPROVED MANUFACTURERS AND TYPES (LED-SOLID STATE) OF INTERIOR LIGHTING SPECIFICATIONS SECTION 265100.
- 2. CEILING AND LIGHT FIXTURE LAYOUTS INDICATED ON THE PLANS ARE SHOWN FOR REFERENCE ONLY. FINAL EXACT FIXTURE LOCATIONS SHALL BE DETERMINED AT FIELD WITH EXISTING CONDITIONS, BUILDING STRUCTURE, MECHANICAL EQUIPMENT, RACEWAYS, AND PIPING ETC.
- 3. FOR PANEL SCHEDULE(S) AND RISER DIAGRAM REFER TO DRAWINGS E-5.01 TO AND E-5.02
- 4. ALL PANEL DIRECTORIES SHALL BE TYPED/WRITTEN DESCRIBING ALL CIRCUITS AS SHOWN ON PANEL SCHEDULES.
- 5. PROVIDE EQUIPMENT GROUND AND BONDING AS PER N.E.C. 250. FURNISH A GREEN GROUND WIRE TO ALL LIGHTING CIRCUITS.
- 6. PROVIDE UL LISTED FIRE STOPPING AT ALL PENETRATIONS THROUGH RATED PARTITIONS/WALLS/ROOFS.
- 7. CONTRACTOR SHALL VERIFY CEILING CONSTRUCTION AND LIGHT FIXTURE MOUNTING TYPE AND PROVIDE ALL ADEQUATE, STEPS, CHAINS, LIGHTING SUPPORTS, TRIMS, ETC. REQUIRED FOR A COMPLETE INSTALLATION, WHEN APPLICABLE.
- 8. ALL MATERIALS, DEVICES, APPLIANCES, FIXTURES SHALL BE LISTED AND BEAR WITH THE STANDARDS OF UNDERWRITERS LABORATORIES (U.L.) OR ANY APPROVED NATIONALLY RECOGNIZED LABORATORY

**DEMOLITION NOTES**

- 1. CONSULT AND COORDINATE AT FIELD LIMITED DEMOLITION WITH ARCHITECT/USPS REPRESENTATIVE, PRIOR TO THE EXECUTION OF WORK IN MARKED AREAS. ELECTRICAL DEMOLITION SHALL BE PERFORMED AS SHOWN ON NOTES AND DEMOLITION RISER (WHEN APPLICABLE). PROVIDE THE NECESSARY DEMOLITION OF EXISTING ELECTRICAL EQUIPMENT FOR A COMPLETE AND SATISFACTORY REMODEL OF THE AREAS UNDER THIS CONTRACT. WORK CONSIST OF BUT IS NOT LIMITED TO THE FOLLOWING:
- 2. FROM MARKED FLOOR PLAN AREAS, REMOVE ALL REQUIRED LUMINAIRES, EXIT LIGHTS, EMERGENCY LIGHTS WITH BATTERY UNITS, RECEPTACLES, SWITCHES, DISCONNECTS, ELECTRICAL EQUIPMENT, FLOOR OUTLETS, FANS, MOTOR CONNECTIONS, APPLIANCES, CONTROLS, TELEPHONE OUTLETS, DATA OUTLETS, DEVICES, CAMERAS, ETC., ETC., AND ALL ASSOCIATED WIRING INCLUDING RACEWAYS, CABLE TRAYS AND CONDUCTORS NOT TO BE RE-USED IN THIS REMODEL.
- 3. ALL EXISTING EXPOSED CONDUITS (RACEWAYS), J-BOXES AND PULL BOXES NOT REUSED SHALL BE REMOVED, COORDINATE WITH NEW WORK PLANS BEFORE ROUGHING-IN.
- 4. LEAVE ALL ELECTRICAL EQUIPMENT NOT UNDER THIS CONTRACT IN OPERATING CONDITIONS, VERIFY BEFORE ROUGHING-IN.
- 5. ELECTRICAL DEMOLITION SHALL BE PERFORMED IN A WAY THAT EXISTING SERVICES AND PROVISIONS TO REMAIN ARE NOT INTERRUPTED OR INTERRUPTED SHORTLY AND REMAIN IN OPERABLE ORIGINAL CONDITIONS.
- 6. NOT USED

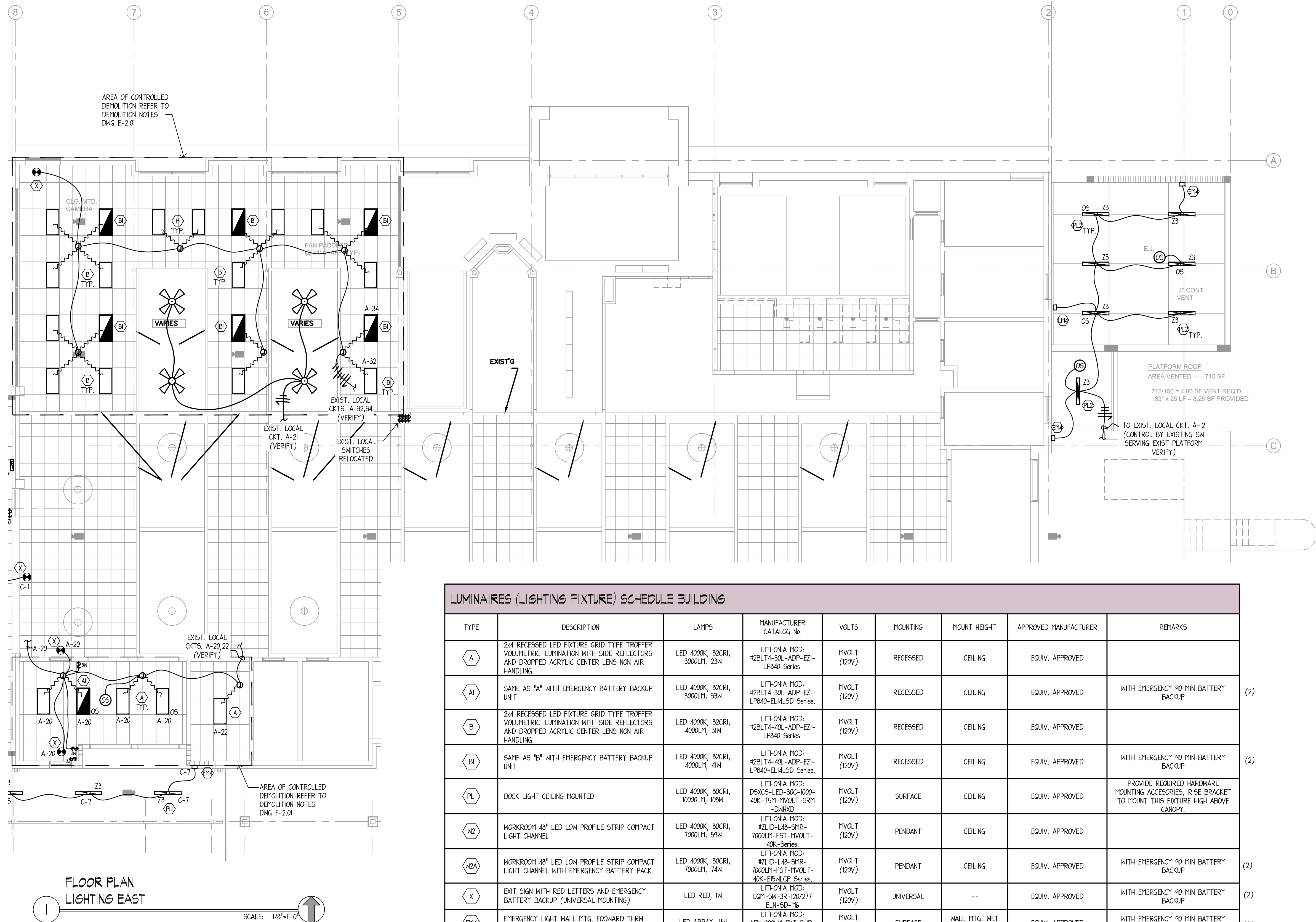
CONTROL PANEL SERVING PANEL "B"  
 CONTROL PANEL 1 OF 2

ZONE DESIGNATION	DESCRIPTION AREA SERVED	CIRCUITS	SETUP OPERATING TIMES (3)	OVERRIDE BY	REMARKS
Z1	WORKROOM AREA LIGHTS	CKT C-1	BY U.S.P.S. REP.	LOCAL SW	
Z2	WORKROOM AREA 50% LEVEL	CKT C-3	BY U.S.P.S. REP.	LOCAL SW	SEE NOTE (2)
Z3	CARRIER LOADING PLATFORM OPEN AREA LIGHTING	CKT C-7	BY U.S.P.S. REP.	OCCUPANCY SENSOR-50%, OVERRIDE BY PHOTOCELL	SEE NOTE (1)
Z4	BUILDING PERIMETER WALL LIGHTS	CKT C-40,42	BY U.S.P.S. REP.		

NOTES:  
 (1) AT OPEN PLATFORMS, MAIL AND CARRIERS PLATFORMS PROVIDE OCCUPANCY SENSORS SET TO 45MIN, TO REDUCE LIGHTING LEVELS TO 50% WITH OCCUPANCY PRESENCES (BI-LEVEL OPERATION), AND CONTROLLED BY LIGHTING CONTROL PANEL WORKING HOURS TIME SETUP AND OVERRIDE BY A CONTROL PANEL SYSTEM PHOTOCELL.  
 (2) CONTRACTOR SHALL PROGRAM THE LIGHTING CONTROL ZONES TO OPERATING HOURS INDICATED BY A U.S.P.S. REPRESENTATIVE.  
 (3) LIGHT CONTROL PANELS SHALL BE FULLY PROGRAMMABLE AND NETWORK ACCESSIBLE VIA CAT 6 WITH RJ45 BETWEEN THEM AND THE OVERRIDE DIGITAL SWITCHES REFER TO ELECTRICAL U.S.P.S. SPECS. REQUIREMENTS.  
 (4) PROPOSED LOCATION AT EXPANSION WORKROOM AREA NEXT TO NEW PANEL "C", VERIFY FINAL LOCATION OF CONTROL PANEL WITH USPS REP./ARCHITECT BEFORE ROUGHING-IN.

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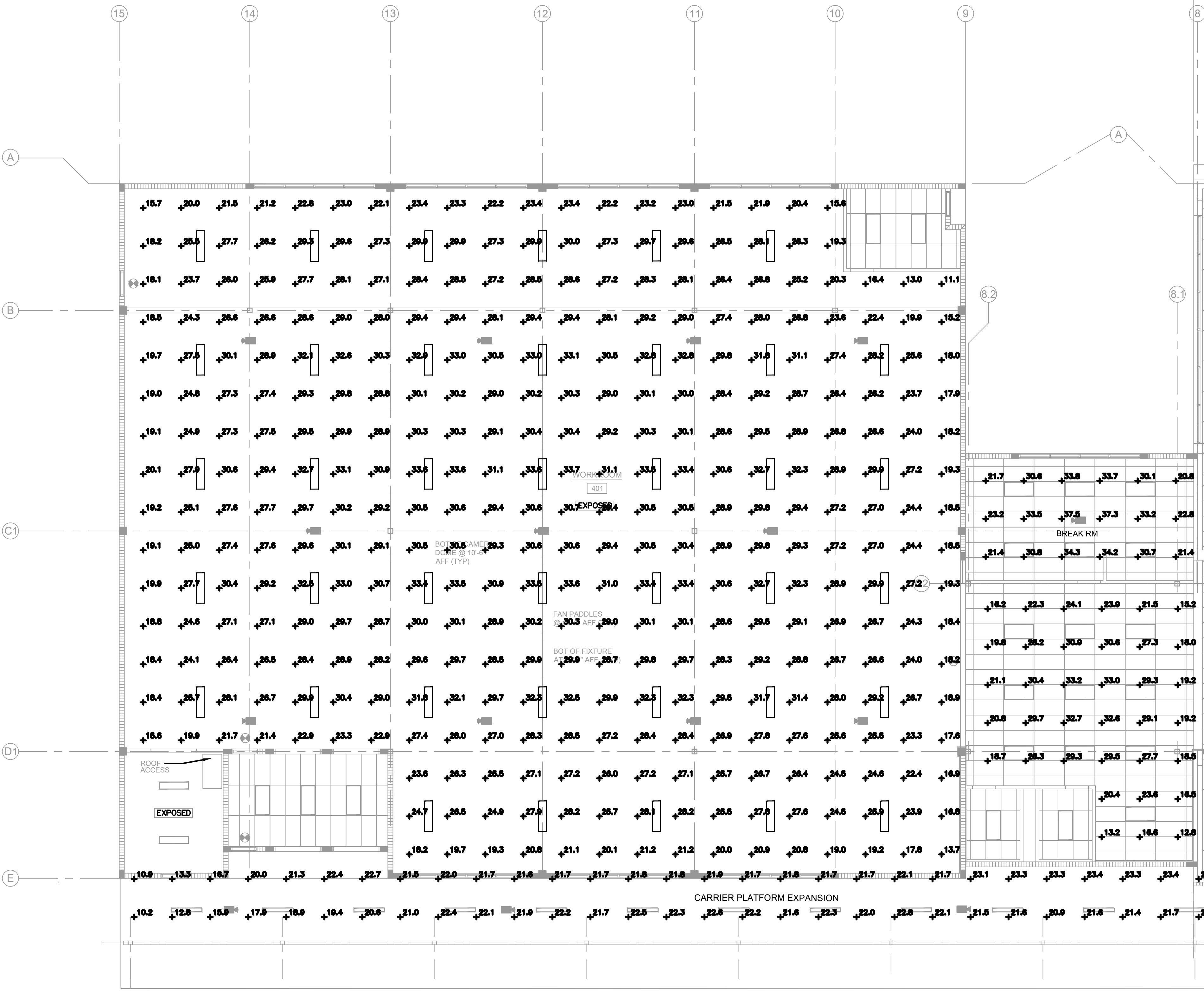




FLOOR PLAN LIGHTING EAST  
SCALE: 1/8"=1'-0"

LUMINAIRES (LIGHTING FIXTURE) SCHEDULE BUILDING								
TYPE	DESCRIPTION	LAMPS	MANUFACTURER CATALOG No.	VOLTS	MOUNTING	MOUNT HEIGHT	APPROVED MANUFACTURER	REMARKS
A	2x4 RECESSED LED FIXTURE GRID TYPE TROFFER VOLUMETRIC ILLUMINATION WITH SIDE REFLECTORS AND DROPPED ACRYLIC CENTER LENS NON AIR HANDLING.	LED 4000K, 82CRI, 3000LM, 23W	LITHONIA MOD: #2BLT4-30L-ADP-EZ1-LP840 Series.	MVOLT (120V)	RECESSED	CEILING	EQUIV. APPROVED	
AI	SAME AS "A" WITH EMERGENCY BATTERY BACKUP UNIT	LED 4000K, 82CRI, 3000LM, 33W	LITHONIA MOD: #2BLT4-30L-ADP-EZ1-LP840-ELI4LSD Series.	MVOLT (120V)	RECESSED	CEILING	EQUIV. APPROVED	WITH EMERGENCY 90 MIN BATTERY BACKUP (2)
B	2x4 RECESSED LED FIXTURE GRID TYPE TROFFER VOLUMETRIC ILLUMINATION WITH SIDE REFLECTORS AND DROPPED ACRYLIC CENTER LENS NON AIR HANDLING.	LED 4000K, 82CRI, 4000LM, 31W	LITHONIA MOD: #2BLT4-40L-ADP-EZ1-LP840 Series.	MVOLT (120V)	RECESSED	CEILING	EQUIV. APPROVED	
BI	SAME AS "B" WITH EMERGENCY BATTERY BACKUP UNIT	LED 4000K, 82CRI, 4000LM, 41W	LITHONIA MOD: #2BLT4-40L-ADP-EZ1-LP840-ELI4LSD Series.	MVOLT (120V)	RECESSED	CEILING	EQUIV. APPROVED	WITH EMERGENCY 90 MIN BATTERY BACKUP (2)
PL1	DOCK LIGHT CEILING MOUNTED	LED 4000K, 80CRI, 1000LM, 108W	LITHONIA MOD: D5XC5-LED-30C-1000-40K-151-MVOLT-SR1-DW4WD	MVOLT (120V)	SURFACE	CEILING	EQUIV. APPROVED	PROVIDE REQUIRED HARDWARE MOUNTING ACCESSORIES, RISE BRACKET TO MOUNT THIS FIXTURE HIGH ABOVE CANOPY.
W2	WORKROOM 48" LED LOW PROFILE STRIP COMPACT LIGHT CHANNEL	LED 4000K, 80CRI, 7000LM, 59W	LITHONIA MOD: #ZLID-L48-SMR-7000LM-FST-MVOLT-40K-F5VALGP Series.	MVOLT (120V)	PENDANT	CEILING	EQUIV. APPROVED	
W2A	WORKROOM 48" LED LOW PROFILE STRIP COMPACT LIGHT CHANNEL WITH EMERGENCY BATTERY PACK.	LED 4000K, 80CRI, 7000LM, 74W	LITHONIA MOD: #ZLID-L48-SMR-7000LM-FST-MVOLT-40K-F5VALGP Series.	MVOLT (120V)	PENDANT	CEILING	EQUIV. APPROVED	WITH EMERGENCY 90 MIN BATTERY BACKUP (2)
X	EXIT SIGN WITH RED LETTERS AND EMERGENCY BATTERY BACKUP (UNIVERSAL MOUNTING)	LED RED, 1W	LITHONIA MOD: LQ1-SM-3R-120/277 ELN-SD-116	MVOLT (120V)	UNIVERSAL	--	EQUIV. APPROVED	WITH EMERGENCY 90 MIN BATTERY BACKUP (2)
E14	EMERGENCY LIGHT HALL MTG. FORWARD THRU WITH BATTERY BACKUP	LED ARRAY, 11W	LITHONIA MOD: AFN-900LM-EXT-FWD-LED SERIES	MVOLT (120V)	SURFACE	WALL MTG. WET LOCATION	EQUIV. APPROVED	WITH EMERGENCY 90 MIN BATTERY BACKUP (2)

NOTES:  
 (1) LIGHT FIXTURE MANUFACTURER, TYPES AND INSTALLATION REQUIREMENTS PERFORMED AS PER GENERAL ELECTRICAL SPECS INTERIOR LIGHTING SECTION 26500 AND EXTERIOR LIGHTING SECTION 265600  
 (2) FURNISHED WITH SEALED MAINTENANCE FREE BATTERY BACKUP UNIT CAPABLE OF MAINTAINING FIXTURE A MINIMUM OF 90 MIN IN OPERATION  
 (3) PROVIDE ALL REQUIRED HARDWARE MOUNTING ACCESSORIES, RISE BRACKETS, RINGS, ETC. NECESSARY TO PERFORM A COMPLETE INSTALLATION OF ALL FIXTURES AS REQUIRED.  
 (4) FIXTURE MANUFACTURER WITH FACTORY INSTALLED EMERGENCY BATTERY BACKUP, IN CASE OF NOT PROVIDED, FURNISHED EXTERNAL FORWARD THRU EMERGENCY LIGHTS TYPE "E14"  
 (5) AT OPEN PLATFORMS, MAIL AND CARRIERS PLATFORMS PROVIDE OCCUPANCY SENSORS SET TO 45MIN, TO REDUCE LIGHTING LEVELS TO 50% WITH OCCUPANCY PRESENCES (BI-LEVEL OPERATION), AND CONTROLLED BY LIGHTING CONTROL PANEL WORKING HOURS TIME SETUP.



LIGHTING LEVELS STATISTICS						
ZONE	AVERAGE (FC)	MAXIMUM (FC)	MINIMUM (FC)	MAX/MIN	AVE/MIN	AVERAGE REQ.(FC)
NEW WORKROOM AREA - 100%	26.9	33.7	11.1	3.0 : 1	2.4 : 1	25.0
NEW WORKROOM CONNECTOR	23.9	33.2	12.8	2.6 : 1	1.9 : 1	25.0
EXIST. WORKROOM EXPANSION	29.8	43.4	15.3	2.8 : 1	1.9 : 1	25.0
LUNCHROOM	29.4	37.4	20.8	1.8 : 1	1.4 : 1	30.0
CARRIER PLATFORM EXPANSION	20.2	23.4	10.2	2.3 : 1	2.0 : 1	20.0
MAIL PLATFORM EXPANSION	30.5	37.3	16.3	2.3 : 1	1.9 : 1	20.0

NOTE:  
PHOTOMETRIC LEVELS CALCULATED  
AND SHOWN WITH ALL ZONES TUNED  
ON (AT 100% LIGHTING LEVEL)

FLOOR PLAN  
FOOT-CANDLE LIGHTING BUILDING WEST  
SCALE: 1/8"=1'-0"

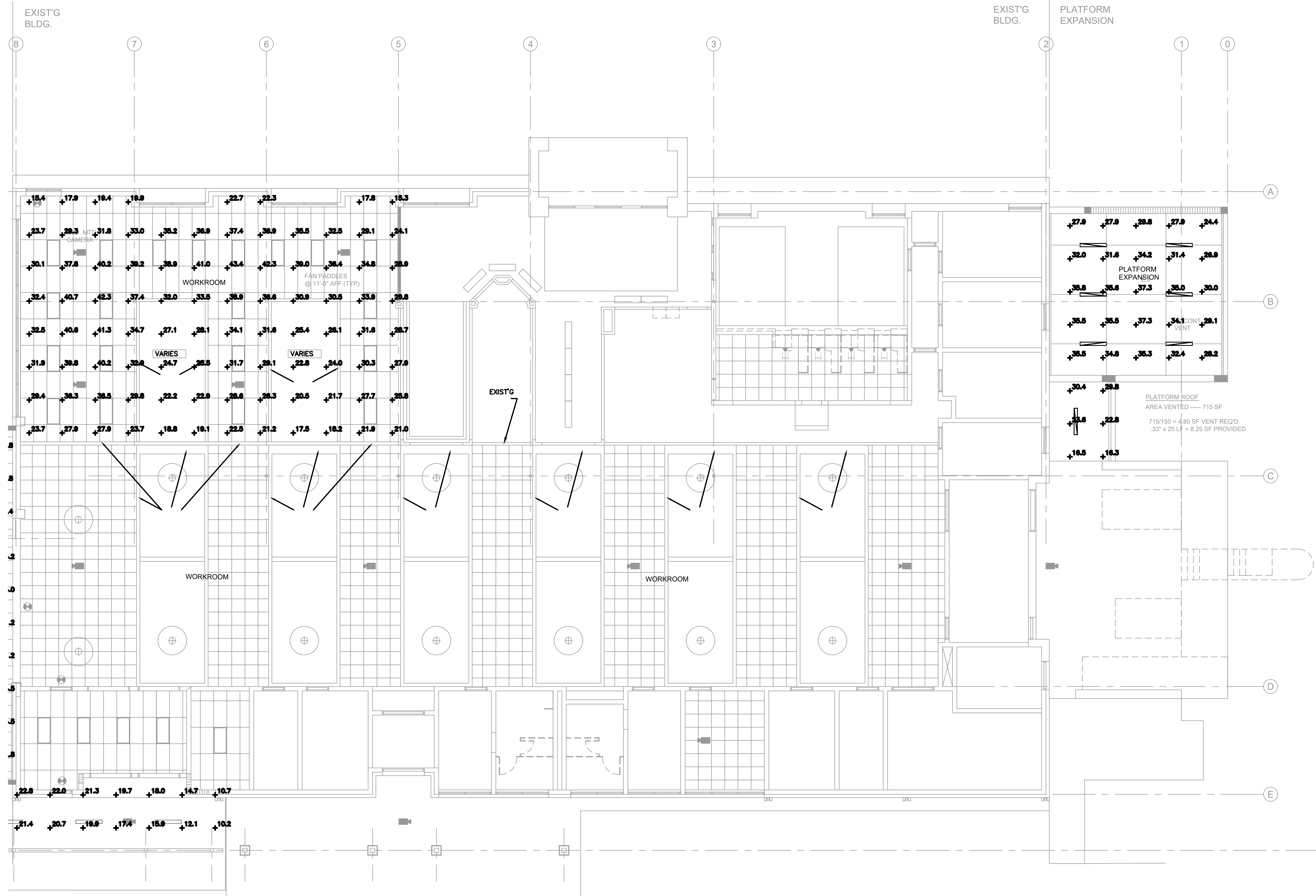
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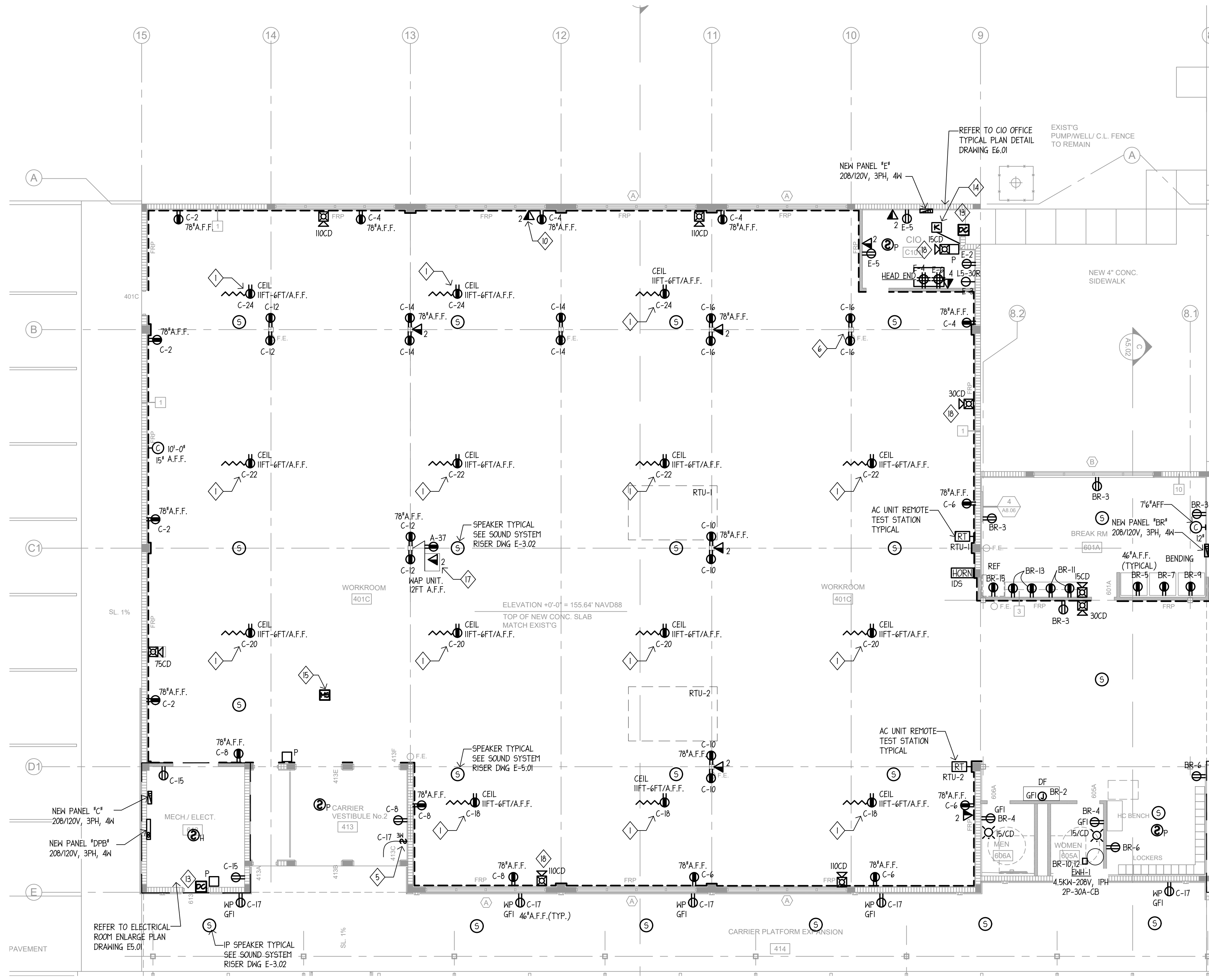


FLOOR PLAN  
FOOT-CANDLE LIGHTING BUILDING EAST  
SCALE: 1/8"=1'-0"

LIGHTING LEVELS STATISTICS						
ZONE	AVERAGE (FC)	MAXIMUM (FC)	MINIMUM (FC)	MAX/MIN	AVE/MIN	AVERAGE REQ.(FC)
NEW WORKROOM AREA - 100%	26.9	33.7	11.1	3.0 : 1	2.4 : 1	25.0
NEW WORKROOM CONNECTOR	23.9	33.2	12.8	2.6 : 1	1.9 : 1	25.0
EXIST. WORKROOM EXPANSION	29.8	43.4	15.3	2.8 : 1	1.9 : 1	25.0
LUNCHROOM	29.4	37.4	20.8	1.8 : 1	1.4 : 1	30.0
CARRIER PLATFORM EXPANSION	20.2	23.4	10.2	2.3 : 1	2.0 : 1	20.0
MAIL PLATFORM EXPANSION	30.5	37.3	16.3	2.3 : 1	1.9 : 1	20.0

NOTE:  
PHOTOMETRIC LEVELS CALCULATED  
AND SHOWN WITH ALL ZONES TUNED  
ON (AT 100% LIGHTING LEVEL)





**FLOOR PLAN  
BUILDING POWER- WEST**  
SCALE: 1/8"=1'-0"

**ELECTRICAL NEW WORK KEY NOTES**

1. A TWIST LOCK GROUNDING TYPE RECEPTACLE, NEMA L5-20R WITH DROP CORD LOCATED IN A GRID PATTERN (ONE PER 625 SF, BOX AT 11FT AFF MIN. AND RECEPTACLE AT 6'-6" A.F.F.), REFER TO USPS DESIGN CRITERIA REQUIREMENTS. REFER TO DETAIL. PROVIDE KELLUM WIRE REINFORCEMENTS AT CORD AND RECEPTACLE. SEE DETAIL AT DRAWING E6.01
2. REFER TO ELECTRICAL SPECIFICATIONS FOR A COMPLETE MATERIAL AND INSTALLATION REQUIREMENTS INFORMATION.
3. PROVIDE RIGID GALVANIZED STEEL CONDUITS AND FITTINGS TO EXPOSED RACEWAYS ABOVE FINISH FLOOR TO 8 FT AFF., THEN EMT SHALL BE USED ABOVE 8FT IN DRY INTERIOR SPACES. CONCRETE ENCASE RACEWAYS SHALL BE PVC SCHEDULE 40, DIRECT BURIAL RACEWAYS SHALL BE PVC SCHEDULE 40 WITH RG ELBOWS OR RIGID GALVANIZED STEEL. ALL INTERIOR POWER, LIGHTING AND LINE VOLTAGE CONTROL CONDUCTORS SHALL RUN IN RACEWAYS.
4. CONTRACTOR SHALL PROVIDE ALL RACEWAYS (EMPTY CONDUIT SYSTEM WITH NYLON PULL STRING) NECESSARY FOR LINE VOLTAGE CONTROL WIRING. CONDUCTORS FURNISHED AND INSTALLED BY MECHANICAL. COORDINATE ALL REQUIREMENTS AND EXACT LOCATIONS WITH MECHANICAL CONTRACTOR WHEN NECESSARY.
5. ALL POWER OUTLETS IN CARRIER PLATFORM SHALL BE SWITCHED FROM WORKROOM SIDE, LABEL SWITCH ACCORDINGLY.
6. RECEPTACLES INSTALLED 8FT AWAY OR LESS FROM A FIRE EXTINGUISHER SHALL BE EQUIPPED WITH A LOCKING COVER STAINLESS STEEL TYPE.
7. FOR FIRE ALARM TYPICAL RISER AND NOTES REFER TO DRAWING E-5.01, VERIFY DEVICES EXACT LOCATIONS AT FIELD.
8. HERR (TIME CLOCK SYSTEM) PROVISIONS. CONTRACTOR SHALL FURNISH REQUIRED POWER AND DATA OUTLETS AT LOCATION SET BY USPS REPRESENTATIVE/ ARCHITECT, VERIFY EXACT LOCATION BEFORE ROUGHING-IN.
9. CONTRACTOR SHALL PROVIDE RIGID RACEWAYS (EMPTY CONDUIT SYSTEM WITH NYLON PULL STRING) NECESSARY FOR ALL TERMINATIONS OF TELECOMMUNICATIONS OF OUTLETS CABLES VERTICAL RUNS.
10. TELECOMMUNICATIONS-OUTLET (TYPICAL). FOR TELECOMMUNICATIONS-OUTLET AND SECURITY EQUIPMENT LAYOUT, REFER TO DETAILS AT DRAWING E6.02. REFER TO LEAD TELECOMMUNICATIONS OUTLET BOXES FOR T/O'S SHALL BE DOUBLE GANG 2.5 IN. DEEP WITH SINGLE GANG TRIM RING AND COVER PLATE. TELECOMMUNICATIONS OUTLETS (T/O'S) SHALL BE WALL MOUNTED AT 20" A.F.F. TO TOP OF OUTLET AT OFFICE AREAS AND AT 78" A.F.F. AT WORKROOM AREAS, UNLESS OTHERWISE NOTED. "4" DENOTES OUTLET QUAD-PLEX. "6" DENOTES SIX-PLEX TYPE OF OUTLET.
11. TELECOMMUNICATIONS-DATA AND SECURITY EQUIPMENT LAYOUT, REFER TO TYPICAL DETAILS AT DRAWING E-6.02. COORDINATE ALL EXACT LOCATIONS WITH A U.S.P.S. REPRESENTATIVE BEFORE ROUGHING-IN. MAXIMUM HORIZONTAL CABLEING DISTANCES MUST NOT EXCEED 296 FT. FOR A STANDARD TELECOMMUNICATIONS OUTLET. THIS HORIZONTAL DISTANCE IS TO INCLUDE ALL VERTICAL DISTANCES PLUS REQUIRED SERVICE LOOPS.
12. FOR EQUIPMENT GROUNDING AND BONDING OF ALL EQUIPMENT PROVIDE A 6" GROUND BUS WITH 1/4" THIN/THIN-CU GROUND WIRE TO ELECTRICAL SERVICE GROUND, COMPLETED IN ACCORDANCE WITH THE IAT/IA-607-A SPECIFICATIONS AS WELL THE NFPA-70 NEC AND ANY APPLICABLE LOCAL CODES. REFER TO RISER DIAGRAM DWG E-5.02 AND USPS SPECIFICATIONS SECTION 271000.
13. EXISTING INTRUSION DETECTION SYSTEM (IDS), VERIFY AT FIELD EQUIPMENT TYPE AND MANUFACTURER. COORDINATE ADDITIONAL DEVICES AND PROVIDE NECESSARY EQUIPMENT FOR ADDITIONAL DEVICES AND NEW WIRING REQUIREMENTS. SEE SPECIFICATION SECTION 281600. VERIFY AT FIELD ALL IDS DEVICES EXACT LOCATIONS WITH ARCHITECT/USPS REPRESENTATIVE BEFORE ROUGHING-IN.
14. INTRUSION DETECTION SYSTEM DOOR SWITCH, CONTRACTOR SHALL VERIFY AT FIELD EXACT LOCATION AND MOUNTING TYPE WITH DOOR STYLE AND FRAMING.
15. INTRUSION DETECTION SYSTEM KEYPAD LOCATED AT ENTRANCES, COORDINATE EXACT LOCATIONS WITH ARCHITECT/USPS REPRESENTATIVE.
16. CEILING MOUNTED AREA MOTION DETECTOR. HOME RUN WIRING TO ALARM PANEL. SEE SPEC INTRUSION DETECTION SYSTEMS FOR ROUTING REQUIREMENTS. VERIFY AT FIELD MOTION SENSOR EXACT LOCATIONS BEFORE ROUGHING-IN.
17. EXISTING SOUND SYSTEM INTEGRATED WITH ZONE PAGING SYSTEM THRU THE PHONE SYSTEM. REFER TO SPECS INTEGRATED, PUBLIC ADDRESS ZONE PAGING SYSTEM SECTION 27510. PROVIDE PAGING SPEAKERS THRU WORKROOM, INTERIOR AND EXTERIOR PLATFORMS, MAINTENANCE AREAS, LUNCH ROOM, LOCKER ROOMS AND CORRIDORS WIRED TO MATCH EXISTING (CAT-6 CABLEING BY SOUND/ COMMUNICATION CONTRACTOR); PROVIDE EQUIPMENT SHOP DRAWINGS BEFORE COMMENCING THE JOB. ELECTRICAL CONTRACTOR SHALL PROVIDE AL NECESSARY POWER AND BASIC PROVISIONS FOR A COMPLETE OPERABLE SYSTEM. SEE TYPICAL RISER DIAGRAM DWG E-3.02
18. PROVIDE A DUPLEX RECEPTACLE AND TWO CATEGORY 6A CABLE RUNS PER WAP, AS SPECIFIED BY RALEIGH WIRELESS PREDICTIVE WAP PLACEMENT. DUPLEX T/O SHALL BE MOUNTED AT 12 FT. AFF ONTO FIRE RESISTANT WOOD BASE MOUNT. VERIFY EXACT LOCATIONS WITH U.S.P.S. REPRESENTATIVE BEFORE ROUGHING-IN.
19. FIRE ALARM SYSTEM PANEL EXISTING TO REMAIN. ALL FIRE ALARM DEVICE WORK, SHALL BE COORDINATED WITH ARCHITECT/USPS REPRESENTATIVE. ALL WORK AT BUILDING FIRE ALARM SYSTEM UNDER THIS CONTRACT, SHALL BE DONE UNDER A SUPERVISED AND CERTIFIED PERSONNEL BY FIRE ALARM UNIT MANUFACTURER-INSTALLER. FIRE ALARM SYSTEM INSTALLATION WORK AND MATERIALS SHALL COMPLY WITH U.S.P.S SPECIFICATION SECTION 26300 AND THE U.S.P.S. STANDARD DESIGN CRITERIA SECT. 5-5 OF THE FIRE PROTECTION SYSTEM AND UNIT MANUF. RECOMMENDATIONS.
20. PROVIDE UL LISTED FIRE STOPPING AT ALL PENETRATIONS THROUGH RATED PARTITIONS/WALLS/ROOFS.

**IDS ZONE REQUIREMENTS**

AREA OF COVERAGE	ZONE ASSIGNMENT
WORKROOM	ZONE 1
SAFES / VAULT	ZONE 2
RETAIL COUNTER	ZONE 3
MERCHANDISING AREAS	ZONE 4
ADMIN OFFICES AND CORRIDOR	ZONE 5
REGISTRY CAGE	ZONE 6
INVESTIGATIVE OFFICE (CIO) (PROGRAMMED AREA 2)	ZONE 7
BUSINESS MAIL ENTRY UNIT (BMEU)	ZONE 8
ELECTRICAL ROOM	ZONE 9

**NOTES TO CONTRACTOR**

1. ALL WORK SHALL BE DONE IN ACCORDANCE TO U.S.P.S. DESIGN CRITERIA AND CONSTRUCTION SPECIFICATIONS.
2. CONTRACTOR SHALL INSTALL CIRCUIT PROTECTION AND WIRING SERVING AIR CONDITIONING EQUIPMENT TO COMPLY WITH N.E.C. ART. 440 REQUIREMENTS. VERIFY EXACT LOCATIONS WITH MECHANICAL EQUIPMENT AT FIELD.
3. PROVIDE ADEQUATE CLEARANCES AND DEDICATED SPACE AROUND ALL ELECTRICAL EQUIPMENT (DISCONNECTS, PANELS, VFD'S, ETC.) TO COMPLY WITH N.E.C. ART. 10 REQUIREMENTS.
4. PROVIDE EQUIPMENT GROUND AND BONDING PER N.E.C. 250.
5. ALL WORK IN FIRE ALARM EQUIPMENT AND DEVICES SHALL BE MADE UNDER DIRECT SUPERVISION OF A QUALIFIED TECHNICAL REPRESENTATIVE OF THE EQUIPMENT MANUFACTURER, WHO SHALL TEST THE SYSTEM COMPLETELY AND CERTIFICATE IN WRITING AS TO PROPER INSTALLATION AND OPERATION OF THE FIRE ALARM PRIOR TO THE FINAL ACCEPTANCE OF THE SYSTEM BY THE OWNER.
6. PROVIDE UL LISTED FIRE STOPPING AT ALL PENETRATIONS THROUGH RATED PARTITIONS/WALLS/ROOFS.
7. CONTROL WIRING SHALL BE ROUTED IN CONDUIT. COORDINATE WITH CONTROLS AND MECHANICAL CONTRACTOR, ALL RACEWAYS FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.

**LIGHTNING PROTECTION NOTES**

1. ELECTRICAL CONTRACTOR SHALL PROVIDE A LIGHTNING PROTECTION SYSTEM TO THE EXISTING AND NEW BUILDING. ADDITIONAL LIGHTNING PROTECTION SYSTEM SHALL BE BONDED TO THE UNDERGROUND COUNTERPOISE IN ACCORDANCE WITH NFPA 780. FURNISHED SHOP DRAWINGS FOR APPROVAL PRIOR INSTALLATION.
2. THE LIGHTNING PROTECTION SYSTEM REQUIRES A SURGE PROTECTION DEVICE TO BE INSTALLED ON EACH ELECTRIC SERVICE ENTRANCE. THESE SURGE PROTECTION DEVICES MUST BE A TYPE I OR TYPE 2 SURGE PROTECTION DEVICE THAT IS LISTED TO COMPLY WITH UL 1449, 4TH EDITION AND HAVE A NOMINAL DISCHARGE CURRENT (IN) OF 20KA PER PHASE.
3. LIGHTNING SYSTEM SHALL BE INSTALLED BY A QUALIFIED TECHNICAL LICENSED INSTALLER OF THE EQUIPMENT MANUFACTURER, WHO SHALL INSPECT, TEST THE SYSTEM COMPLETELY AND CERTIFICATE IN WRITING AS TO PROPER INSTALLATION OF THE LIGHTNING PROTECTION SYSTEM PER UL 964 OF UNDERWRITERS LABORATORIES INC., PRIOR TO THE FINAL ACCEPTANCE OF THE SYSTEM BY THE OWNER.
4. ALL WORK SHALL BE DONE IN ACCORDANCE TO U.S.P.S. DESIGN CRITERIA AND U.S.P.S. CONSTRUCTION SPECIFICATIONS SECTIONS 26428 AND 26400
5. NOT USED

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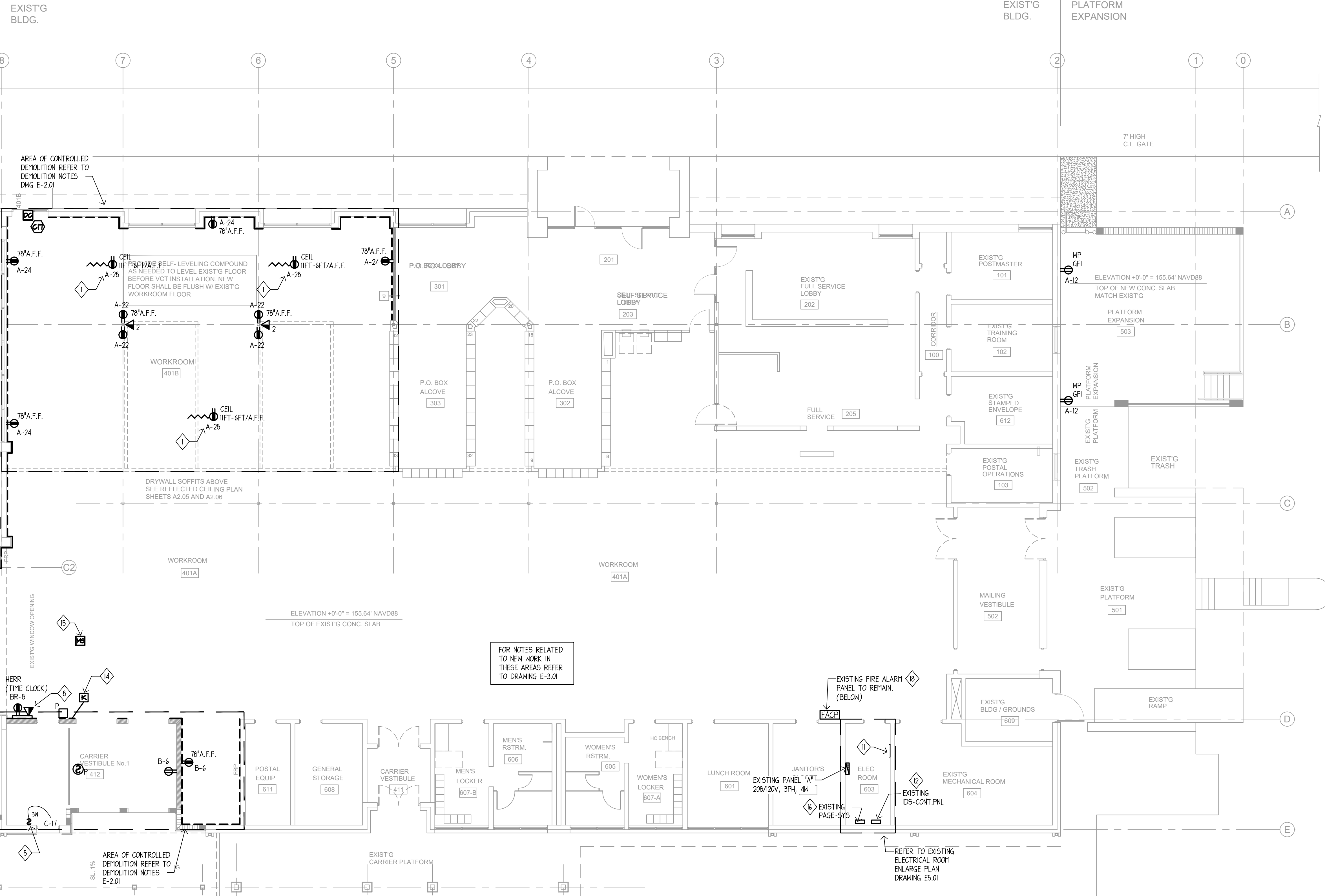
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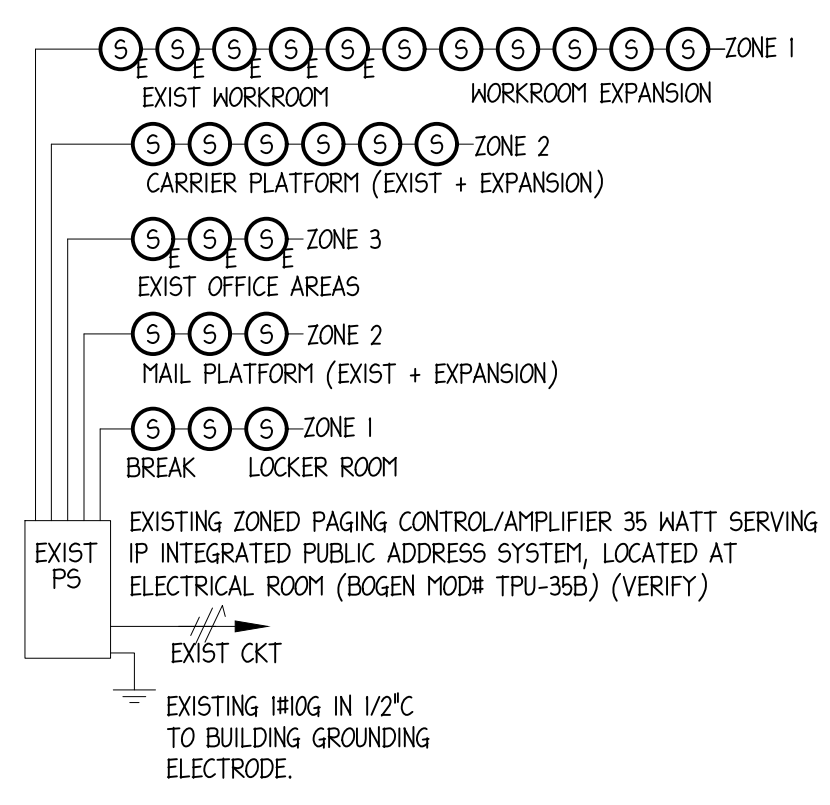
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**FLOOR PLAN  
BUILDING POWER- EAST**



**PAGING SYSTEM  
NTS.**

PAGING SYSTEM KEY NOTES	
1	ALL WORK AT THE EXISTING INTEGRATED PUBLIC ADDRESS ZONE PAGING SYSTEM-SOUND SYSTEM SHALL BE DONE IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS AND U.S.P.S. CONSTRUCTION SPECIFICATIONS SECTION 27516.
2	ALL DEVICES INSTALLED, EXTENDERS, EXPANDERS AND PROVISIONS SHALL BE UL LISTED, AND THE SAME MANUFACTURER COMPATIBLE WITH SYSTEM AND APPROVED FOR THE PURPOSE WHICH THEY ARE INTENDED, TO MATCH EXISTING.
3	FOR SYSTEM REQUIREMENTS AND INSTALLATION RECOMMENDATIONS REFER TO USPS SPECIFICATION 27516 AND EXISTING UNIT MANUFACTURER INSTALLATION INSTRUCTIONS.
3	INSTALLATION SHALL BE MADE BY A QUALIFIED TECHNICAL REPRESENTATIVE OF THE EQUIPMENT MANUFACTURER, EXPERIENCED IN THE DESIGN, INSTALLATION, TESTING, AND MAINTENANCE OF THE IP PAGING SYSTEM.
4	ALL SOUND SYSTEM INTEGRATED SPEAKERS EXACT LOCATIONS AND PUBLIC ADDRESS ZONE ASSIGNATIONS SHALL BE COORDINATED WITH ARCHITECT/U.S.P.S. REPRESENTATIVE, BEFORE ROUGHING-IN

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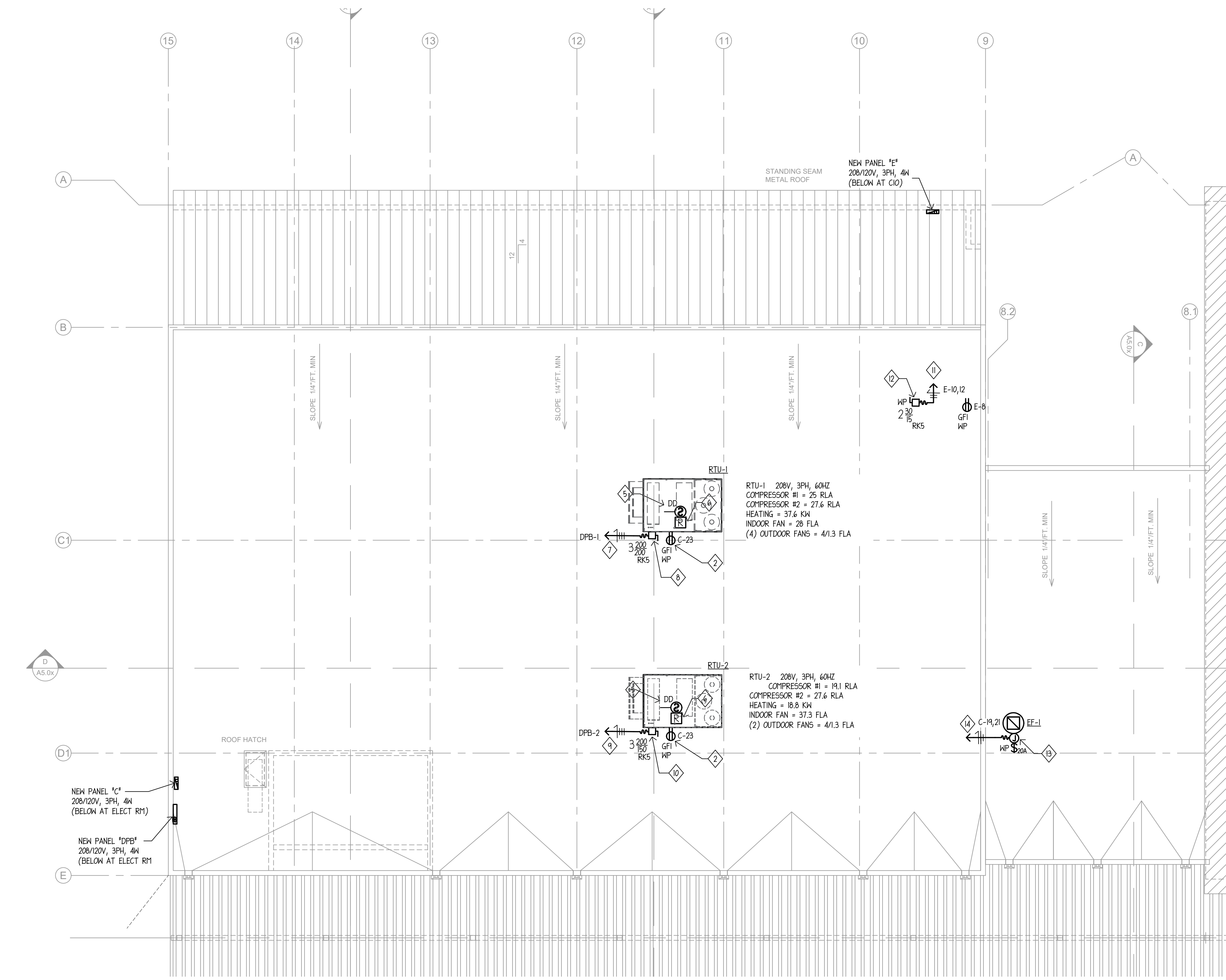
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**ELECTRICAL NEW WORK KEY NOTES**

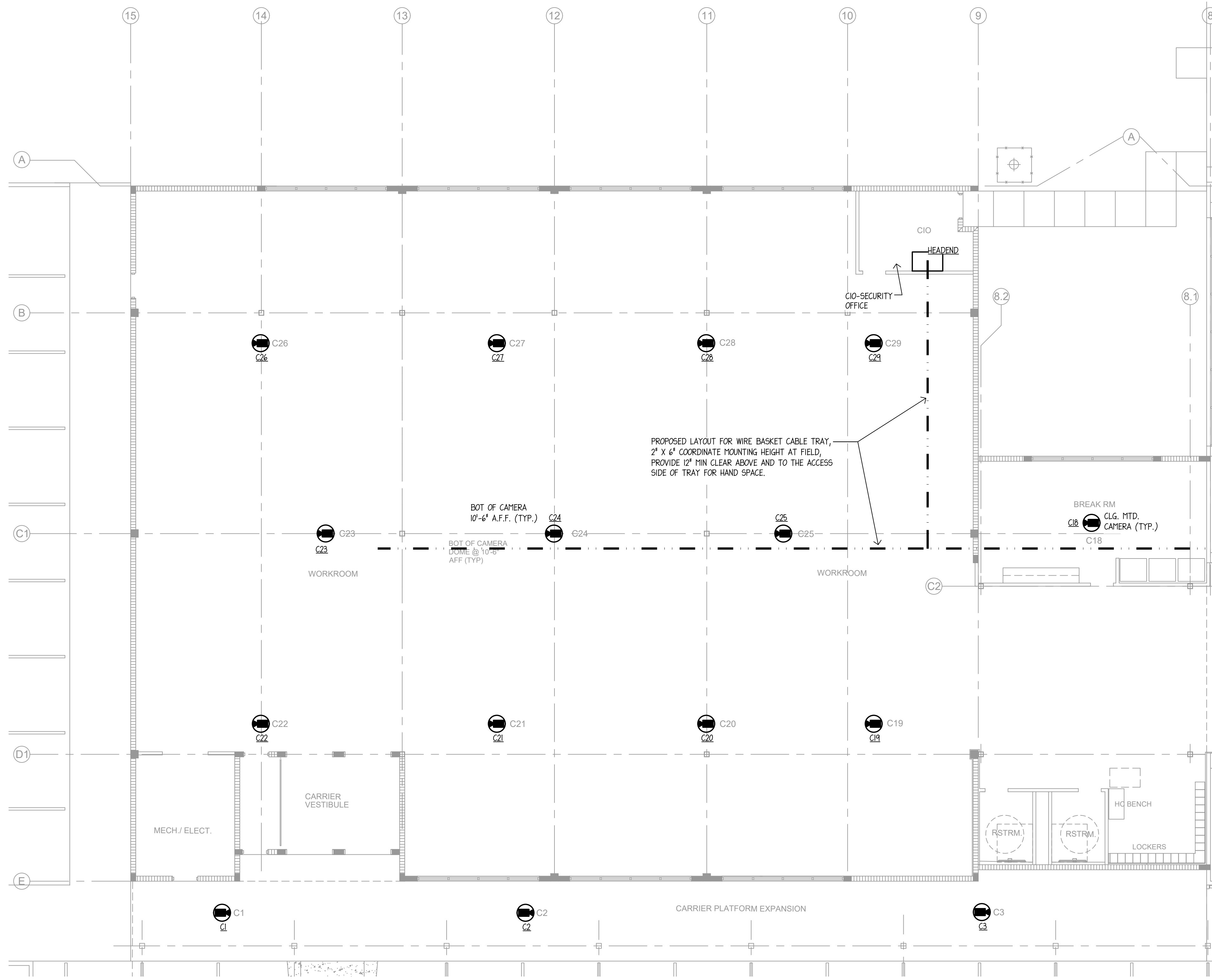
- 1 UNIT SERVICE DISCONNECT FURNISHED BY MECHANICAL AND/OR FACTORY INSTALLED AND PRE-WIRED TO UNIT, VERIFY WITH EQUIPMENT AT FIELD BEFORE COMMENCING THE JOB. CONTRACTOR SHALL COORDINATE ALL EQUIPMENT EXACT LOCATIONS WITH MECHANICAL AT ROOF.
- 2 20A, 120V DUPLEX WP-GFI CONVENIENCE RECEPTACLE PROVIDED WITH AC UNIT FACTORY INSTALLED AND WIRED AS SHOWN. ELECTRICAL CONTRACTOR SHALL PROVIDE A RECEPTACLE AND DEDICATED ROOF REC CIRCUIT WHEN RECEPTACLE IF NOT PROVIDED WITH UNIT MANUFACTURER.
- 3 ELECTRICAL CONTRACTOR SHALL PROVIDE ALL RACEWAYS (EMPTY CONDUIT SYSTEM WITH NYLON PULL STRING) NECESSARY FOR LINE VOLTAGE CONTROL WIRING, CONDUCTORS FURNISHED AND INSTALLED BY MECHANICAL. COORDINATE ALL REQUIREMENTS AND EXACT LOCATIONS WITH MECHANICAL CONTRACTOR.
- 4 PROVIDE MOTOR CONNECTIONS WITH LIQUIDTIGHT FLEXIBLE METAL CONDUIT, COORDINATE EXACT MOTOR CONNECTIONS LOCATIONS AT FIELD.
- 5 PROVIDE A FIRE ALARM SMOKE DUCT DETECTOR LOCATED BELOW AT DUCT, IN THE SUPPLY SIDE OF THE UNIT AS REQUIRED BY CODE. FA CONTRACTOR AND MECHANICAL SHALL PREPARE SAMPLING TUBE, DETECTOR AND DETECTOR ENCLOSURE FOR PROPER INSTALLATION PER MANUFACTURER RECOMMENDATIONS.
- 6 FIRE ALARM AC UNIT SHUT DOWN RELAYS (INTEGRAL WITH SD) EXTEND REQUIRED WIRING AS NECESSARY.
- 7 RUN 3#3/0 THHN/THWN-CU, 1#6(G) IN 2\".
- 8 PROVIDE A ROOF TOP UNIT FUSIBLE SERVICE DISCONNECT 3 POLE 200 AMP HEAVY DUTY TYPE NEMA 4, WITH 200AMP RK5 DUAL ELEMENT TIME DELAY FUSES.
- 9 RUN 3#1/0 THHN/THWN-CU, 1#6(G) IN 1-1/2\".
- 10 PROVIDE A ROOF TOP UNIT FUSIBLE SERVICE DISCONNECT 3 POLE 200 AMP HEAVY DUTY TYPE NEMA 4, WITH 125AMP RK5 DUAL ELEMENT TIME DELAY FUSES.
- 11 RUN 2#12 THHN/THWN-CU, 1#2(G) IN 3/4\".
- 12 PROVIDE 2 POLE FUSIBLE SERVICE DISCONNECT RATED 30AMP, HEAVY DUTY TYPE IN NEMA 4 ENCLOSURE, FUSED WITH RK5 FUSETRON DUAL ELEMENT TIME DELAY FUSES.
- 13 PROVIDE A SERVICE DISCONNECT MOTOR RATED TOGGLE SWITCH IN A NEMA 3R ENCLOSURE RATED 20A, 208V
- 14 RUN 2#10 THHN/THWN-CU, 1#10(G) IN 3/4\".

**NOTES TO CONTRACTOR**

1. ALL WORK SHALL BE DONE IN ACCORDANCE TO U.S.P.S. DESIGN CRITERIA AND CONSTRUCTION SPECIFICATIONS.
2. CONTRACTOR SHALL INSTALL CIRCUIT PROTECTION AND WIRING SERVING AIR CONDITIONING EQUIPMENT TO COMPLY WITH N.E.C. ART. 440 REQUIREMENTS. VERIFY EXACT LOCATIONS WITH MECHANICAL EQUIPMENT AT FIELD.
3. PROVIDE ADEQUATE CLEARANCES AND DEDICATED SPACE AROUND ALL ELECTRICAL EQUIPMENT (DISCONNECTS, VFD'S, ETC.) TO COMPLY WITH N.E.C. ART. 110 REQUIREMENTS.
4. PROVIDE EQUIPMENT GROUND AND BONDING TO ALL MECHANICAL EQUIPMENT AS PER N.E.C. 250.
5. ALL WORK IN FIRE ALARM EQUIPMENT AND DEVICES SHALL BE MADE UNDER DIRECT SUPERVISION OF A QUALIFIED TECHNICAL REPRESENTATIVE OF THE EQUIPMENT MANUFACTURER, WHO SHALL TEST THE SYSTEM COMPLETELY AND CERTIFICATE IN WRITING AS TO PROPER INSTALLATION AND OPERATION OF THE FIRE ALARM PRIOR TO THE FINAL ACCEPTANCE OF THE SYSTEM BY THE OWNER.
6. PROVIDE UL LISTED FIRE STOPPING AT ALL PENETRATIONS THROUGH RATED PARTITIONS/WALLS/ROOFS.
7. CONTROL WIRING SHALL BE ROUTED IN CONDUIT. COORDINATE WITH CONTROLS AND MECHANICAL CONTRACTOR, ALL RACEWAYS FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.

**1 ROOF POWER PLAN**  
SCALE: 1/8"=1'-0"





FLOOR PLAN  
CAMERA SYSTEM BUILDING WEST  
SCALE: 1/8"=1'-0"

PROPOSED LAYOUT FOR WIRE BASKET CABLE TRAY,  
2' X 6' COORDINATE MOUNTING HEIGHT AT FIELD,  
PROVIDE 12" MIN CLEAR ABOVE AND TO THE ACCESS  
SIDE OF TRAY FOR HAND SPACE.

BOT OF CAMERA  
10'-6" A.F.F. (TYP.)  
C24  
BOT OF CAMERA  
DOME @ 10'-6"  
A.F.F. (TYP.)

BREAK RM  
CLG. MTD.  
CAMERA (TYP.)  
C18

CAMERAS NEW WORK KEY NOTES	
1	ALL WORK SHALL BE DONE IN ACCORDANCE TO U.S.P.S. DESIGN CRITERIA AND U.S.P.S. CONSTRUCTION SPECIFICATIONS SECTION 282305 - INTRUSION DETECTION SYSTEM AND SECTION 282304 - ANALOG CCTV SYSTEM. ALL CAMERAS SHOWN ON FLOOR PLAN ARE NEW SERVING A NEW INTRUSION DETECTION AND MONITORING SYSTEM.
2	VERIFY EXACT LOCATION OF CCTV SYSTEM AT FIELD WITH ARCHITECT/U.S.P.S. REPRESENTATIVE. AT CAMERA LOCATIONS PROVIDE JUNCTION BOX AS REQUIRED. ALL CAMERAS AS SHOWN ARE TO BE PTZ (PAN-TILT-ZOOM) AND FIXED CAMERA TYPE UNITS. CAMERA HEIGHTS AND/OR EXACT LOCATIONS MUST BE COORDINATED WITH ARCHITECT/U.S.P.S. REPRESENTATIVE AND THE OIG. REFER TO TYPICAL DETAILS DRAWING E-6.01 AND E-6.02
3	A CABLE DISTANCE MAXIMUM FOR A CAMERA OUTLET DEPEND OF CABLE TYPE USED AND SHALL NOT EXCEED TOTAL LENGTH (HORIZONTAL, VERTICAL RUNS AND CABLE LOOPS), RECOMMENDED LENGTHS BY MANUFACTURER AND AS PER U.S.P.S. SECTION 282304, CCTV CABLE INSTALLATION SHALL BE PERFORMED UNDER A DIRECT SUPERVISION OF A CERTIFIED INSTALLER.
4	PROVIDE EQUIPMENT GROUND AND BONDING PER N.E.C. 250.
5	PROVIDE UL LISTED FIRE STOPPING AT ALL PENETRATIONS THROUGH RATED PARTITIONS/WALLS/ROOFS.
6	CABLEING ROUTED EXTERIOR OF THE BUILDING, OR THROUGH INACCESSIBLE CEILINGS SHALL BE CONTAINED IN CONDUIT. CABLEING WITHIN EXPOSED WORKROOM AREAS, NOT ROUTED WITHIN CABLE TRAYS, SHALL BE CONTAINED WITHIN CONDUIT RACEWAYS. PROVIDE FLUSH BOXES WITHIN FINISHED AREAS AND FACTORY BOXES IN UNFINISHED AREAS. PROVIDE 1 INCH CONDUIT RISERS WITH 90 DEGREE BEND AND BUSHING FOR ALL WALL MOUNTED DEVICES.
7	ALL CONDUIT INSTALLATIONS SHALL HAVE APPROPRIATE SLEEVES AND BUSHINGS INSTALLED TO ELIMINATE POTENTIAL FOR DAMAGE TO CABLEING. ALL COMPONENTS OF THE STRUCTURED CABLEING SYSTEM SHALL BE RATED FOR THE RETURN AIR ENVIRONMENT IN WHICH THEY ARE INSTALLED (PLENUM RATED). REFER TO SPECIFICATION SECTION 210500.
8	ALL CCTV EQUIPMENT HARDWARE SHALL BE PROCURED BY THE GC, FROM THE DIRECT VENDOR AS IDENTIFIED IN THE SPECIFICATIONS.
9	THE GENERAL CONTRACTOR SHALL COORDINATE WITH LOW VOLTAGE CONTRACTOR AND ELECTRICAL CONTRACTOR THE WIRING TYPE, INSTALLATION AND TERMINATIONS REQUIRED FOR CCTV SYSTEMS AS IDENTIFIED IN THE DRAWINGS AND SPECIFICATIONS.
10	FINAL CONNECTIONS TO CCTV EQUIPMENT SHALL BE BY THE DIRECT VENDOR AND AS IDENTIFIED IN THE SPECIFICATIONS.
11	WHERE CABLES PASS THROUGH PARTITIONS AND WALLS, PROPERLY BUSHED CONDUIT SLEEVES SHALL BE PROVIDED IN THE WALL TO ALLOW THE CABLES TO PASS. CONDUIT SLEEVES IN FIRE RATED PARTITIONS AND WALLS MUST BE PROPERLY FIRESTOPPED USING U.L. LISTED FIRESTOP SYSTEMS (SILICONE FOAM SHALL NOT BE USED).

CAMERA LEGEND - CIS - CRIMINAL INVESTIGATIVE SYSTEM

CAMERA No.	CAMERA TYPE	LOCATION	CAMERA TYPE	CAMERA TERMINATION	MOUNTING	CABLE TYPE	REMARKS	CAMERA No.
C1	PTZ	CARRIER PLATFORM	OUTDOOR COVERED	HEAD-END	CLG. MOUNT	CAT-6		C1
C2	PTZ	CARRIER PLATFORM	OUTDOOR COVERED	HEAD-END	CLG. MOUNT	CAT-6		C2
C3	PTZ	CARRIER PLATFORM	OUTDOOR COVERED	HEAD-END	CLG. MOUNT	CAT-6		C3
C4	PTZ	CARRIER PLATFORM	OUTDOOR COVERED	HEAD-END	CLG. MOUNT	CAT-6		C4
C5	PTZ	CARRIER PLATFORM	OUTDOOR COVERED	HEAD-END	CLG. MOUNT	CAT-6		C5
C6	PTZ	MAIL PLATFORM	OUTDOOR COVERED	HEAD-END	CLG. MOUNT	CAT-6		C6
C7	FIXED	PERSONNEL ENTRY	OUTDOOR COVERED	HEAD-END	WALL MOUNT	CAT-6		C7
C8	FIXED	TRASH DUMPSTERS	OUTDOOR COVERED	HEAD-END	WALL MOUNT	CAT-6		C8
C9	PTZ	LUNCHROOM	INDOOR	HEAD-END	LAY-IN CEILING	CAT-6		C9
C10	PTZ	WORKROOM	INDOOR	HEAD-END	LAY-IN CEILING	CAT-6		C10
C11	PTZ	WORKROOM	INDOOR	HEAD-END	LAY-IN CEILING	CAT-6		C11
C12	PTZ	WORKROOM	INDOOR	HEAD-END	LAY-IN CEILING	CAT-6		C12
C13	PTZ	WORKROOM	INDOOR	HEAD-END	LAY-IN CEILING	CAT-6		C13
C14	PTZ	WORKROOM	INDOOR	HEAD-END	LAY-IN CEILING	CAT-6		C14
C15	PTZ	WORKROOM	INDOOR	HEAD-END	LAY-IN CEILING	CAT-6		C15
C16	PTZ	WORKROOM	INDOOR	HEAD-END	LAY-IN CEILING	CAT-6		C16
C17	PTZ	WORKROOM	INDOOR	HEAD-END	LAY-IN CEILING	CAT-6		C17
C18	PTZ	WORKROOM	INDOOR	HEAD-END	CLG. MOUNT	CAT-6		C18
C19	PTZ	WORKROOM	INDOOR	HEAD-END	CLG. MOUNT	CAT-6		C19
C20	PTZ	WORKROOM	INDOOR	HEAD-END	CLG. MOUNT	CAT-6		C20
C21	PTZ	WORKROOM	INDOOR	HEAD-END	CLG. MOUNT	CAT-6		C21
C22	PTZ	WORKROOM	INDOOR	HEAD-END	CLG. MOUNT	CAT-6		C22
C23	PTZ	WORKROOM	INDOOR	HEAD-END	CLG. MOUNT	CAT-6		C23
C24	PTZ	WORKROOM	INDOOR	HEAD-END	CLG. MOUNT	CAT-6		C24
C25	PTZ	WORKROOM	INDOOR	HEAD-END	CLG. MOUNT	CAT-6		C25
C26	PTZ	WORKROOM	INDOOR	HEAD-END	CLG. MOUNT	CAT-6		C26
C27	PTZ	WORKROOM	INDOOR	HEAD-END	CLG. MOUNT	CAT-6		C27
C28	PTZ	WORKROOM	INDOOR	HEAD-END	CLG. MOUNT	CAT-6		C28
C29	PTZ	WORKROOM	INDOOR	HEAD-END	CLG. MOUNT	CAT-6		C29
C30	FIXED	FULL SERV COUNTER	INDOOR DOME U.	HEAD-END	LAY-IN CEILING	CAT-6		C30
C31	FIXED	FULL SERV COUNTER	INDOOR DOME U.	HEAD-END	LAY-IN CEILING	CAT-6		C31
C32	FIXED	FULL SERV COUNTER	INDOOR DOME U.	HEAD-END	LAY-IN CEILING	CAT-6		C32
C33	FIXED	FULL SERV COUNTER	INDOOR DOME U.	HEAD-END	LAY-IN CEILING	CAT-6		C33

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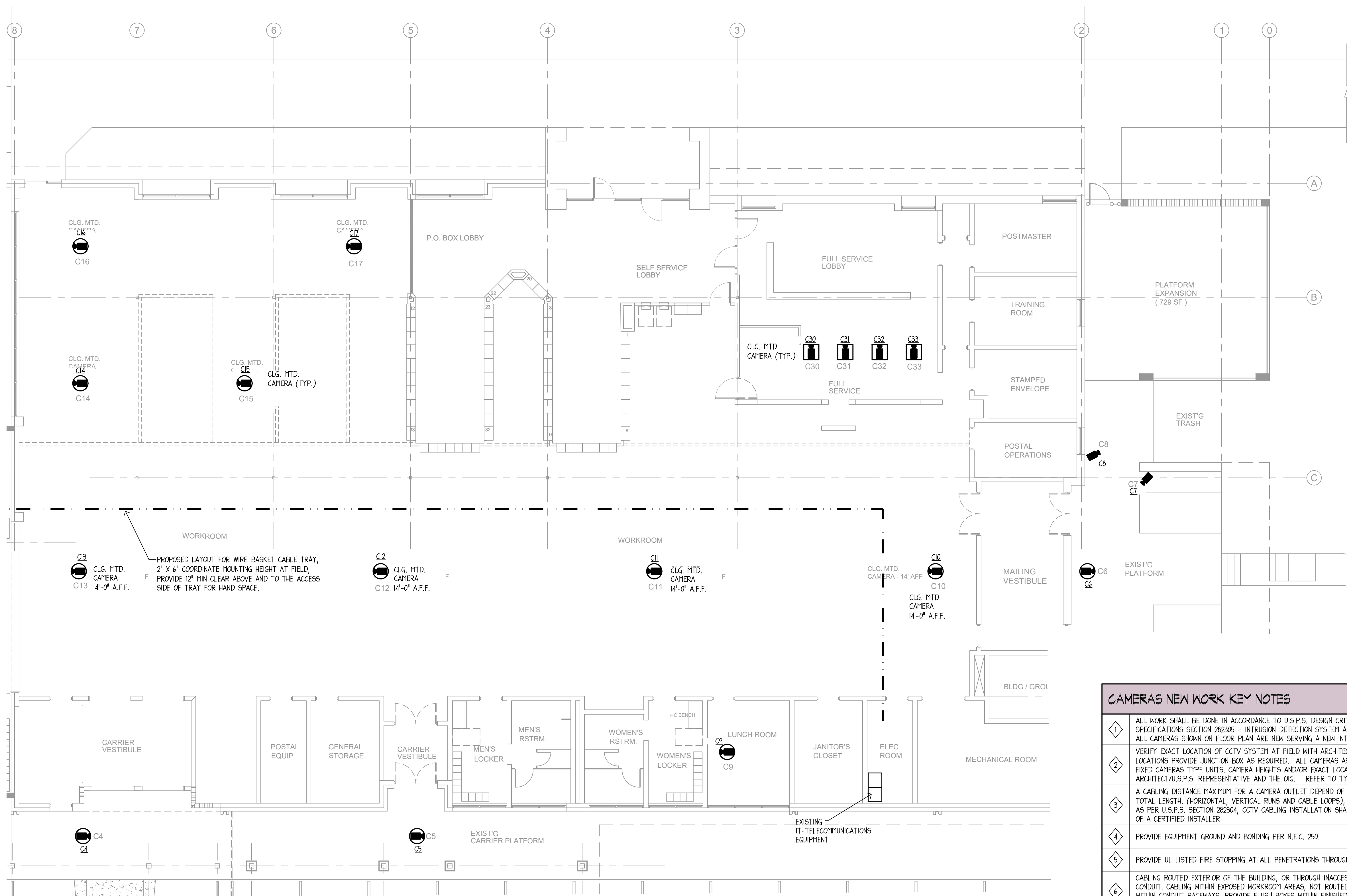
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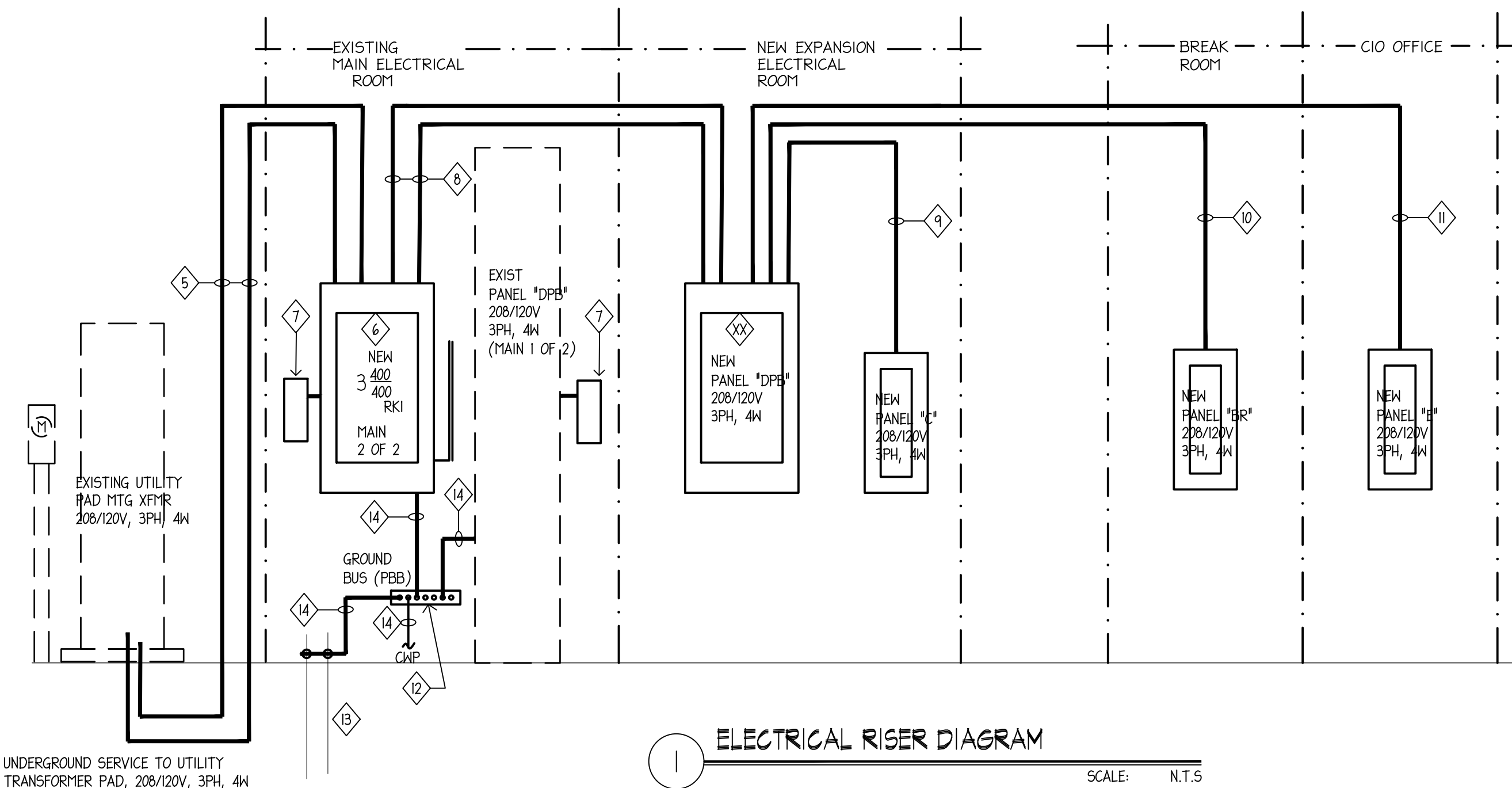




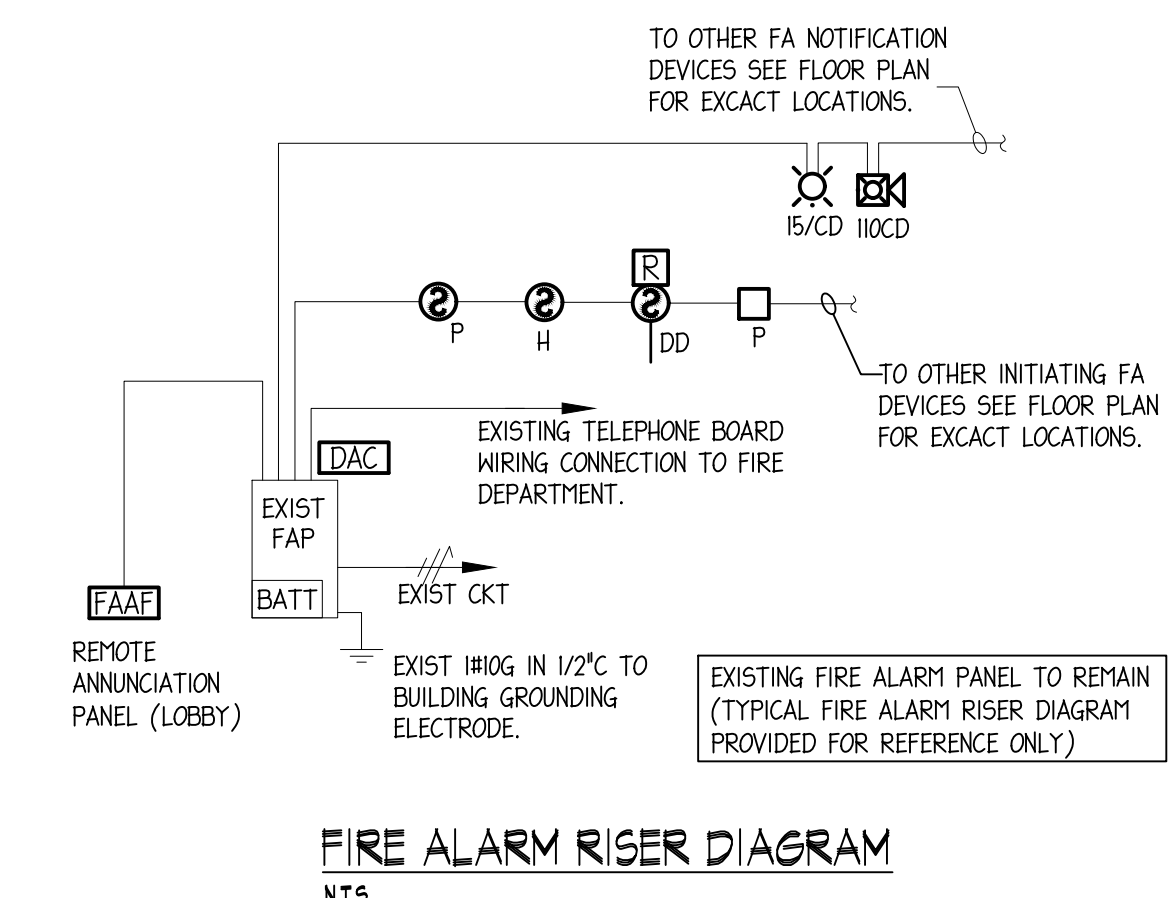
FLOOR PLAN  
CAMERA SYSTEM BUILDING EAST  
SCALE: 1/8"=1'-0"

CAMERAS NEW WORK KEY NOTES	
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8	ALL CCTV EQUIPMENT HARDWARE SHALL BE PROCURED BY THE GC. FROM THE DIRECT VENDOR AS IDENTIFIED IN THE SPECIFICATIONS.
9	THE GENERAL CONTRACTOR SHALL COORDINATE WITH LOW VOLTAGE CONTRACTOR AND ELECTRICAL CONTRACTOR THE WIRING TYPE, INSTALLATION AND TERMINATIONS REQUIRED FOR CCTV SYSTEMS AS IDENTIFIED IN THE DRAWINGS AND SPECIFICATIONS.
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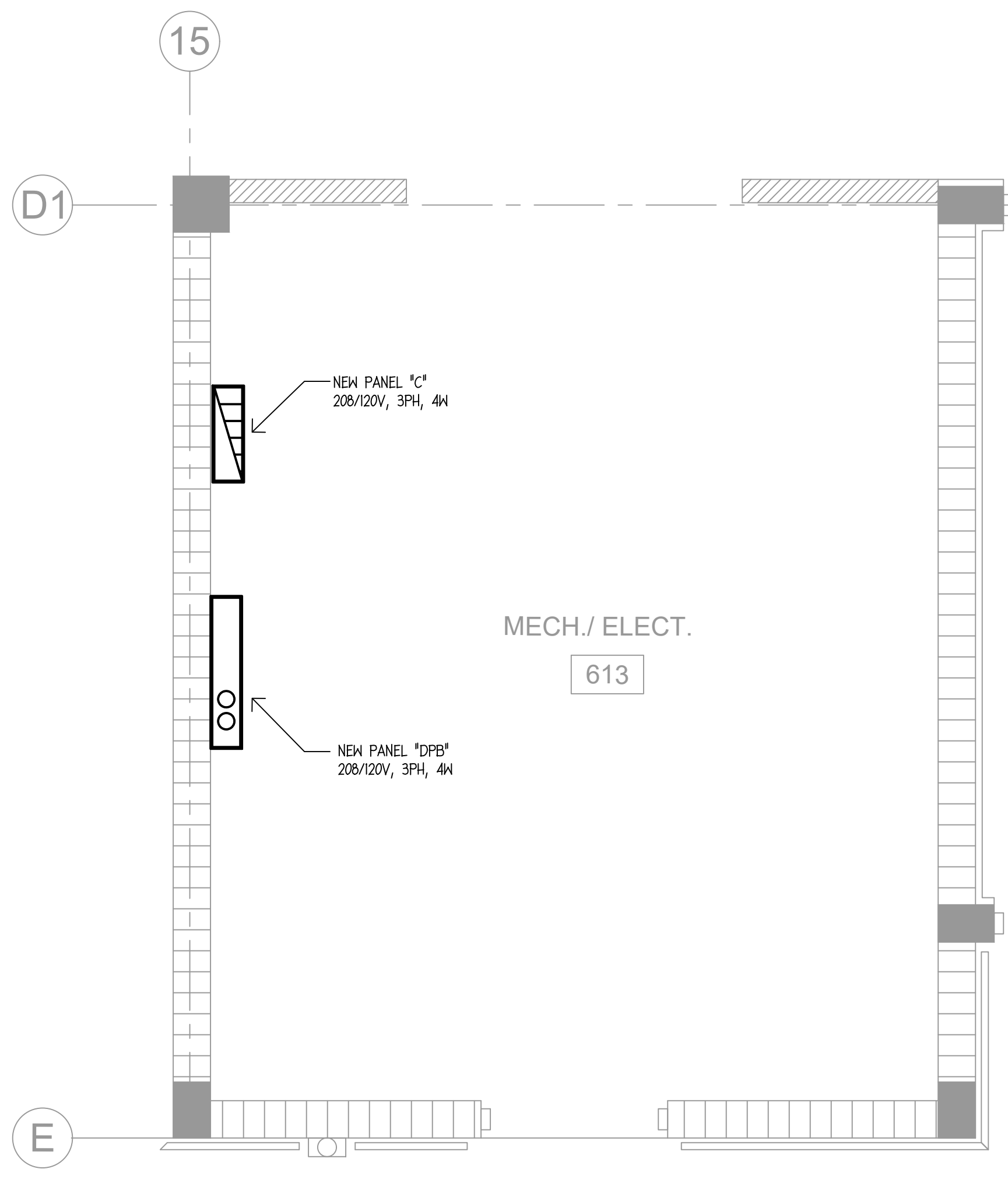
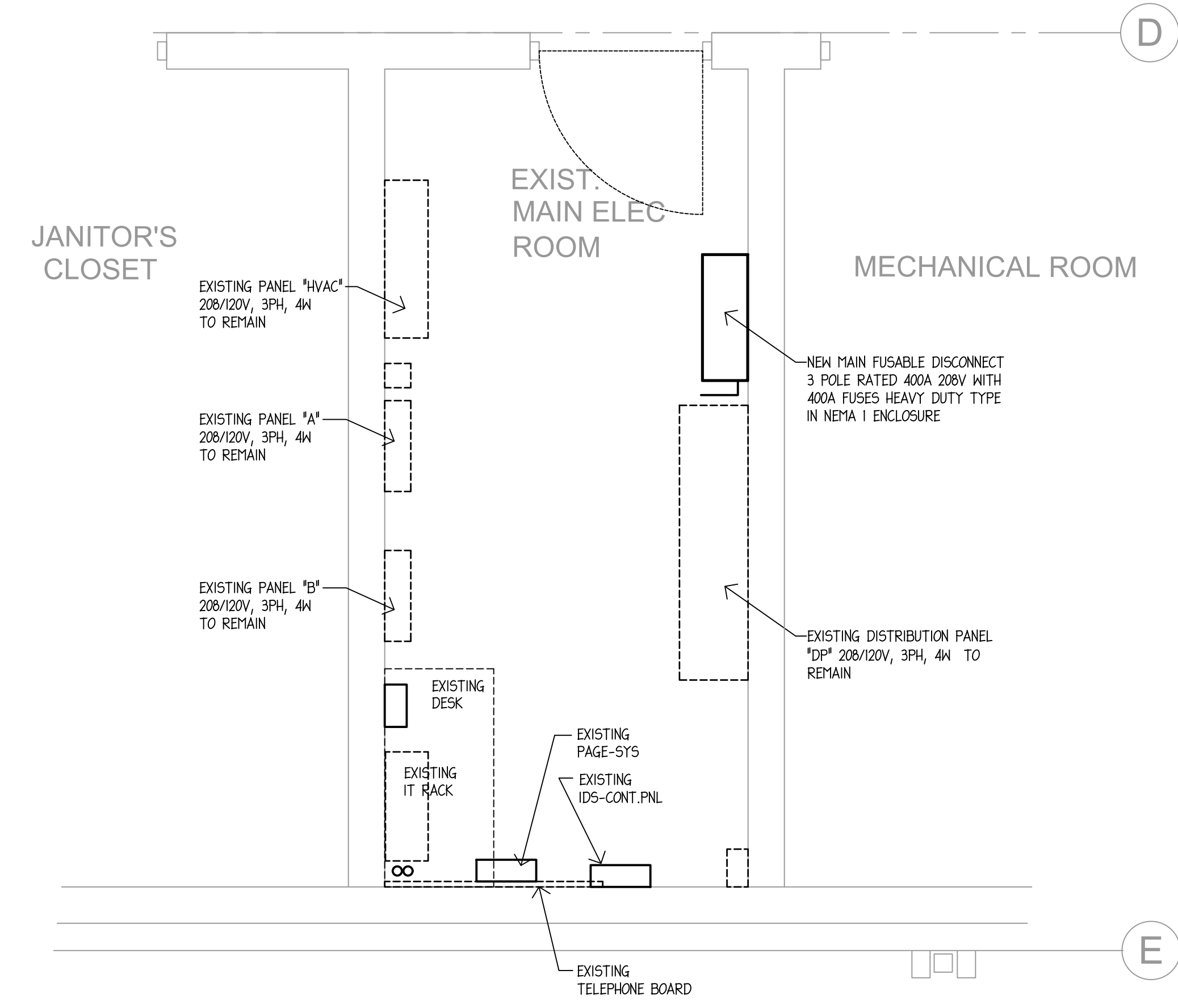


- 4 CONTINUED SHALL PROVIDE A PLASTIC LABEL PERMANENTLY MARKED TO PANELS, SWITCHBOARDS, DISCONNECTS ETC. WITH EQUIPMENT IDENTIFICATION, VOLTAGE, CIRCUIT SERVING AND/OR EQUIPMENT SERVING AS REQUIRED. THE MARKING SHALL BE OF SUFFICIENT DURABILITY TO WITHSTAND TIME AND ENVIRONMENT INVOLVED.
- 5 RUN NEW 2 SETS OF (4#3/0 THHN/THWN-CU IN 2"C)
- 6 PROVIDE A NEW FUSIBLE DISCONNECT SWITCH, 3 POLE RATED 400A 208V HEAVY DUTY TYPE IN NEMA 1 ENCLOSURE, WITH 400A CLASS RK1 CURRENT LIMITING FUSES.
- 7 PROVIDE A SERVICE SURGE PROTECTION UNIT, TO EXISTING DISTRIBUTION PANEL "DP" (MAIN 1 OF 1) AND TO NEW "DPB" MAIN (MAIN 1 OF 2) UNIT RATED TO SERVICE AND TO COMPLY WITH SPECIFICATION SECTION 264126. SQUARE-D OR EQUIV APPROVED.
- 8 RUN NEW 2 SETS OF (4#3/0 THHN/THWN-CU - 1#1/0(G) IN 2"C)
- 9 RUN NEW 4#1/0 THHN/THWN-CU - 1#6(G) IN 2"C
- 10 RUN NEW 4#2 THHN/THWN-CU - 1#6(G) IN 2"C.
- 11 RUN NEW 4#4 THHN/THWN-CU - 1#8(G) IN 1-1/4"C
- 12 MAIN GROUND BUS BAR (PBB). REFER TO U.S.P.S. SPECS. PROVIDE A SECONDARY BONDING BUSBAR (SBB) WITHIN EACH TR. THE SBB SHALL BE BONDED TO THE PBB AT THE TR, WITHIN THE CCR, USING A MINIMUM #10/AN/G/CU BOND CONDUCTOR. REFER TO TYPICAL DETAIL DWG E-6.01
- 13 PROVIDE (2) 1/2"-Ø COPPER CLAD GROUND RODS SEPARATED 6'-0" MINIMUM (VERIFY EXISTING)
- 14 SERVICE GROUND 1#3/0 THHN/THWN-CU IN 1"C
- 15 NOT USED



FIRE ALARM RISER KEY NOTES	
1	ALL WORK AT THE FIRE ALARM SYSTEM SHALL BE DONE IN ACCORDANCE WITH NFPA 101, OSHA 1910, U.S.P.S. DESIGN CRITERIA HANDBOOK AS-503 AND U.S.P.S. CONSTRUCTION SPECIFICATIONS; FOR APPROVED MANUFACTURERS AND TYPE OF DEVICES, REFER TO ELECTRICAL SECTION 283100 FIRE DETECTION AND ALARM SYSTEM (HORN/STROBES)
2	ALL FIRE ALARM DEVICES, EXTENDERS, EXPANDERS AND NEW SYSTEM PROVISIONS INSTALLED, SHALL BE UL LISTED, UL, AND SAME MANUFACTURER COMPATIBLE WITH SYSTEM AND APPROVED FOR THE PURPOSE WHICH THEY ARE INTENDED.
3	PROVIDE A FIRE ALARM SHUT-DOWN SIGNAL TO WORKROOM PADDLE FANS CONTACTOR, VERIFY AT FIELD EXACT LOCATIONS AND REQUIREMENTS.
3	FOR TYPICAL FIRE ALARM DEVICES MOUNTING HEIGHT REFER TO LEGEND DRAWING E-0.02
4	FINAL CONNECTION BETWEEN COMPONENTS SHALL BE MADE UNDER DIRECT SUPERVISION OF A QUALIFIED TECHNICAL REPRESENTATIVE OF THE EQUIPMENT MANUFACTURER/INSTALLER, WHO SHALL TEST THE SYSTEM AND PROVIDE AN "AS BUILT" SHOP DRAWING WITH CERTIFICATE IN WRITING AS TO PROPER INSTALLATION PRIOR TO THE FINAL ACCEPTANCE OF THE SYSTEM BY THE OWNER.
5	ALL FIRE ALARM WORK, SHALL BE COORDINATED WITH ARCHITECT/AS.P.S. REPRESENTATIVE.

UNDERGROUND SERVICE TO UTILITY TRANSFORMER PAD, 208/120V, 3PH, 4W

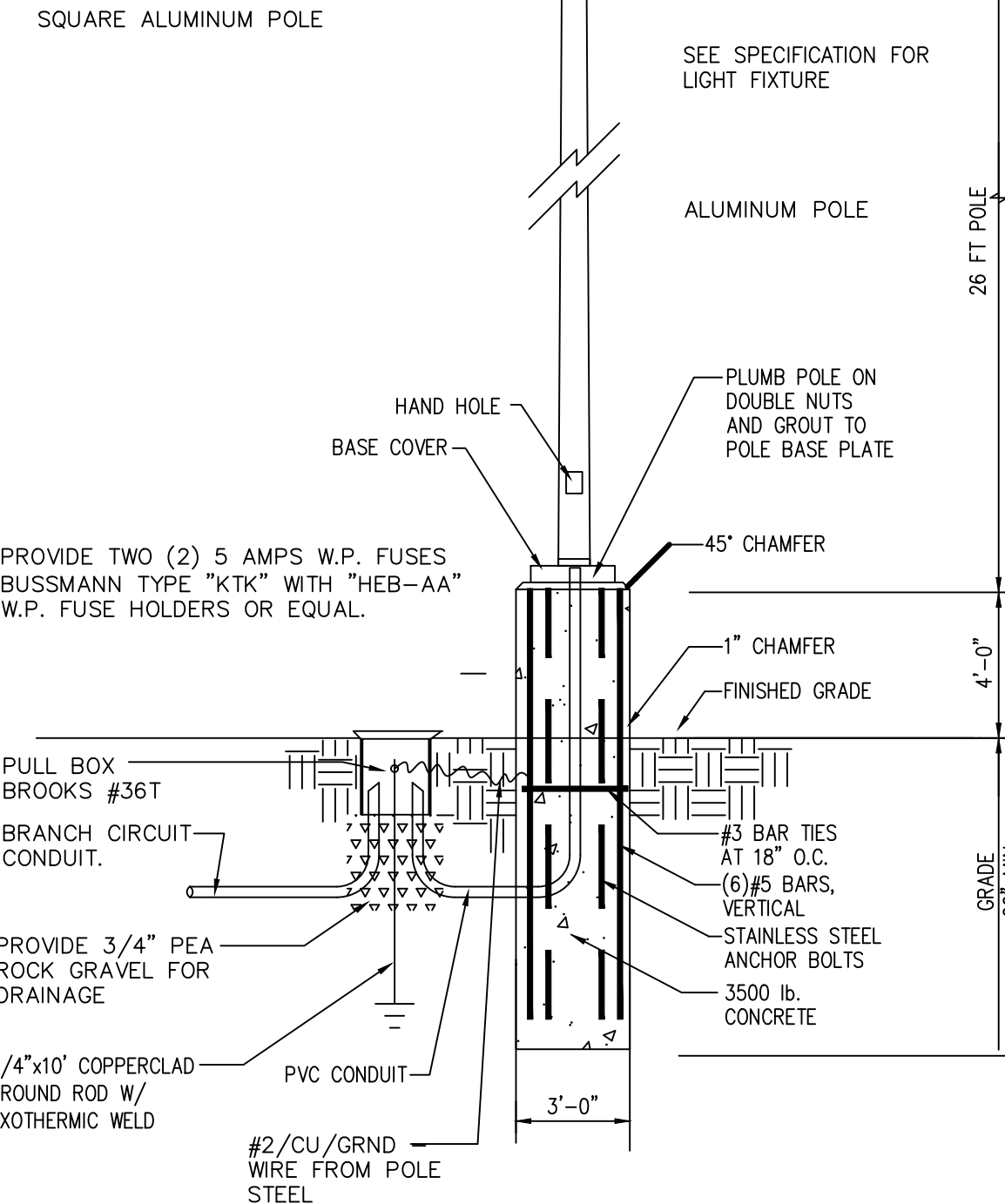








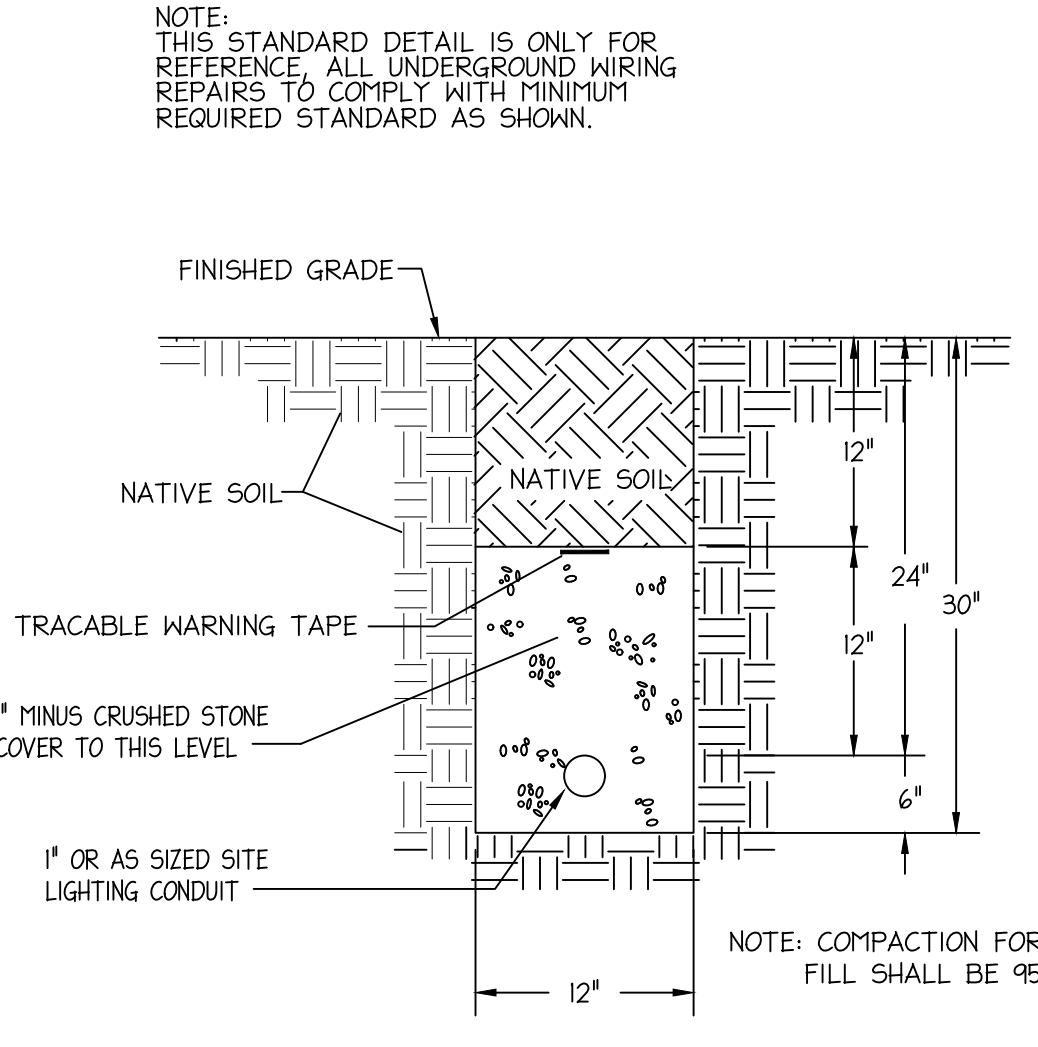
SEE SPECIFICATION/LIGHT FIXTURE SCHEDULE FOR MANUFACTURER AND FIXTURE TYPE



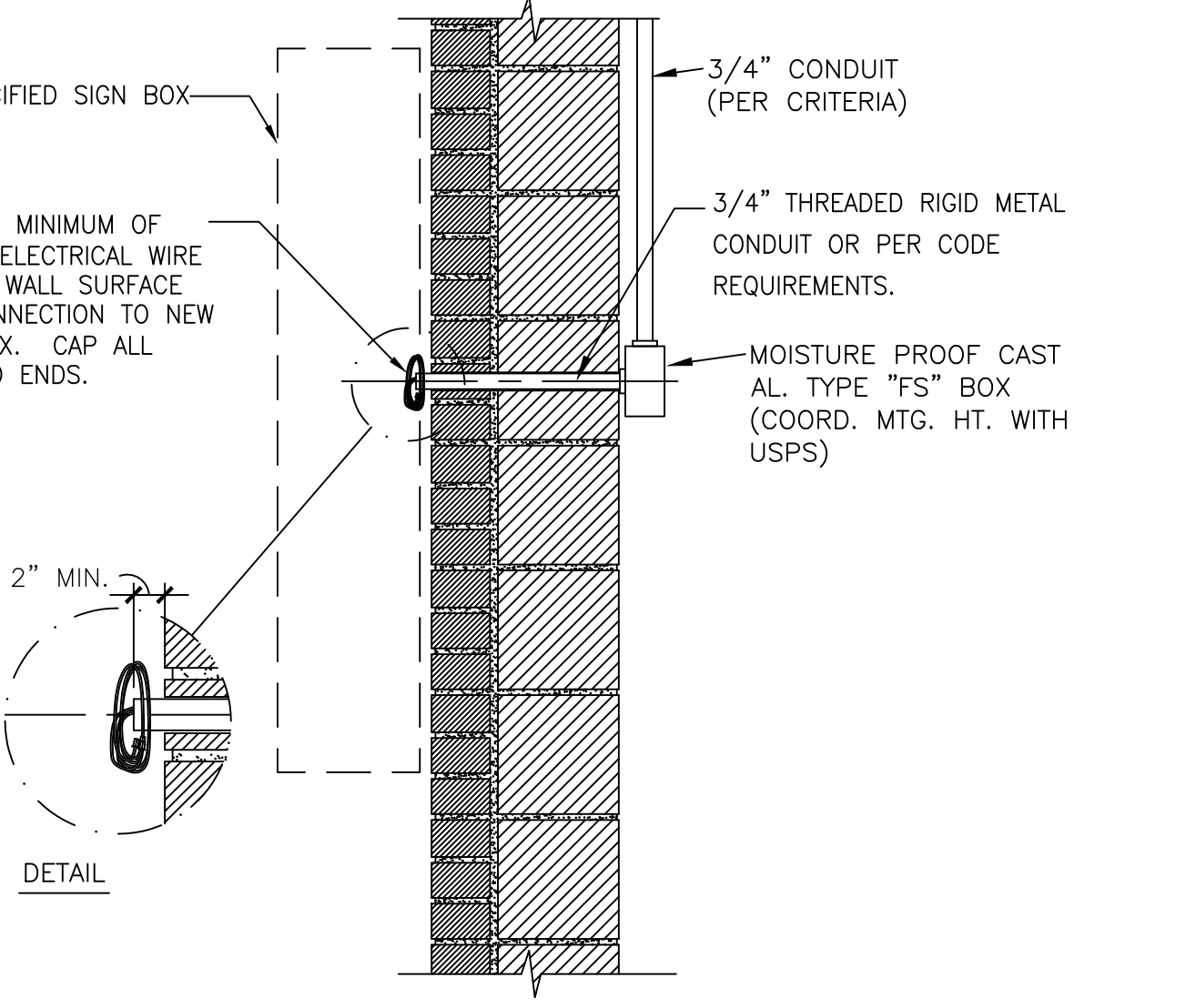
NOTE: POLE FIXTURE AND BASE AS AN ASSEMBLY SHALL MEET THE WIND LOADING REQUIREMENTS OF STATE CODES (F.B.C. BUILDING CHAPTER 16 SECTION 1620). LOCAL CODES AND ORDINANCES AND ASCE 7-10 (CHAPTERS 26 THRU 31). PROSPECTIVE LIGHTING SUPPLIER SHALL SUBMIT CERTIFIED DATA OF COMPLIANCE.

GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL CONCRETE AND REBAR FOR POLE BASES.

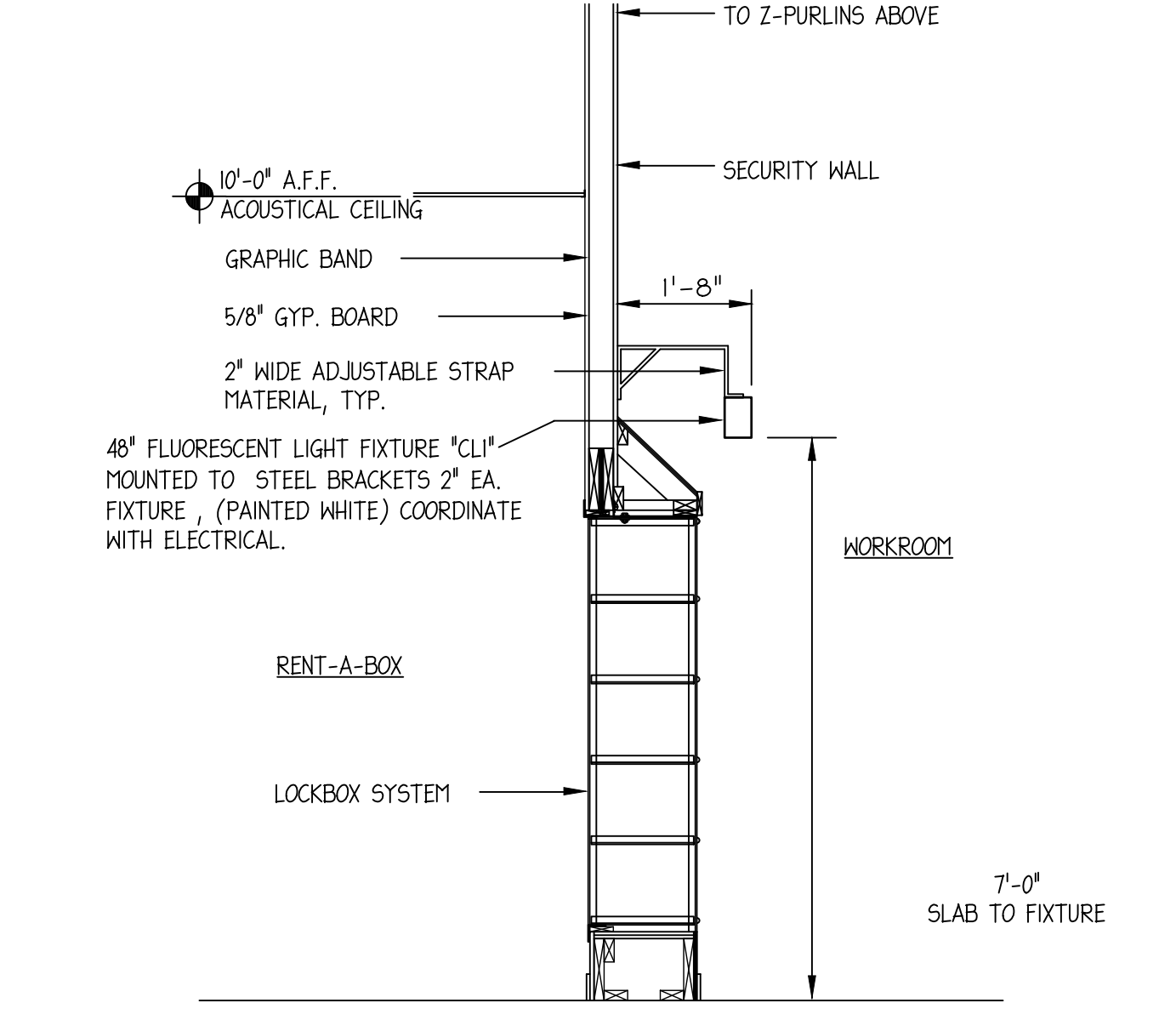
Detail: **SITE DESIGN LIGHT POLE AND BASE DETAIL** Foc. [Ch. Sect. Para. Detail] G 5-3-2b  
 CAD File: [usps/library/details/G5-3-2b.dwg] Scale: N.T.S. 0 1/2" 1" USPS SCL Issued: 06/12/2021 Last Revised:



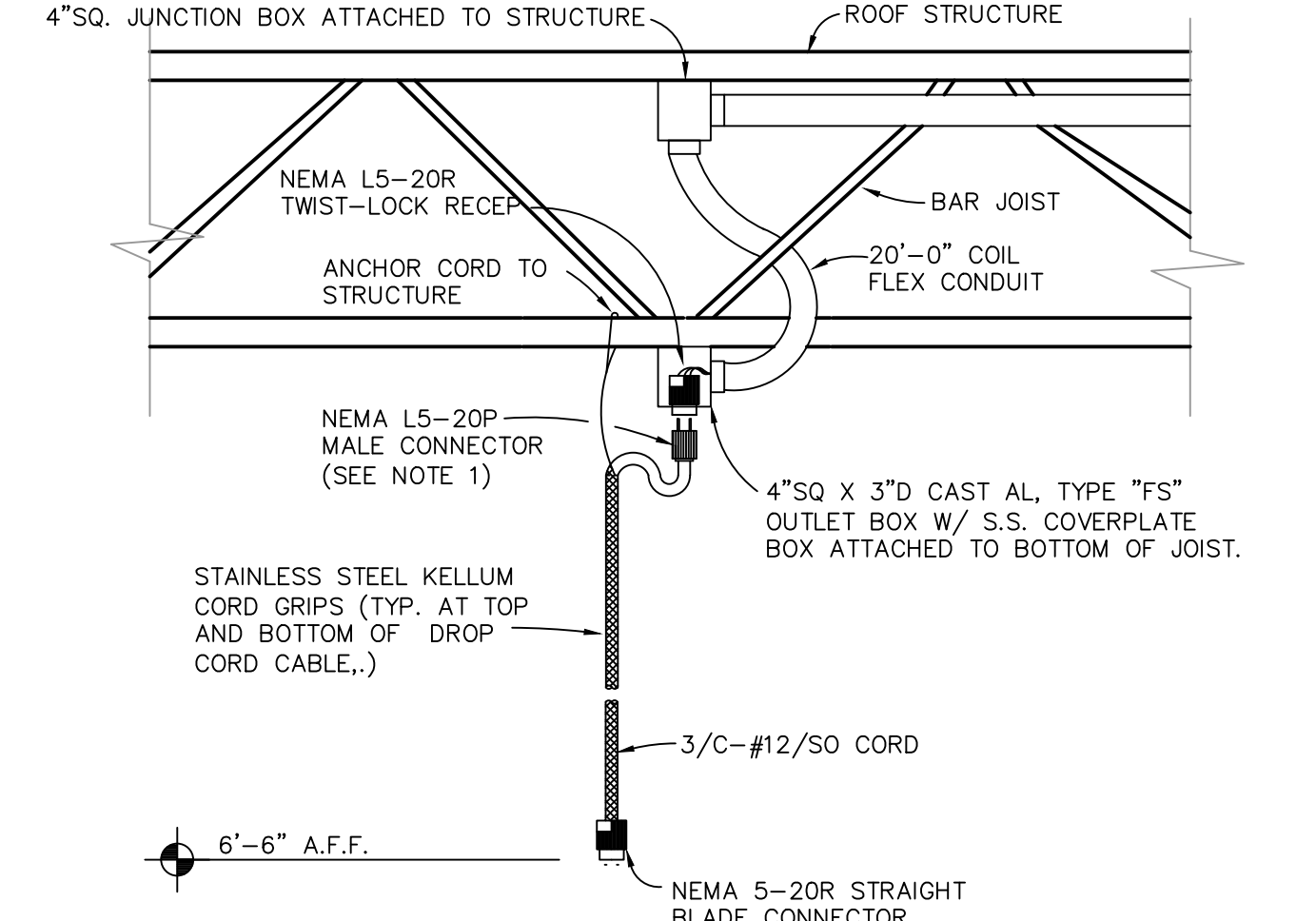
Detail: **SITE LIGHTING TRENCH DETAIL** Foc. [Ch. Sect. Para. Detail] M5-X-Xb  
 CAD File: [usps/library/details/M5-X-Xb.dwg] Scale: N.T.S. 0 1/2" 1" USPS SCL Issued: 10/01/2019 Last Revised: 10/01/2017



Detail: **EXTERIOR LIGHTING THROUGH-WALL SIGN CONNECTION** Foc. [Ch. Sect. Para. Detail] G5-3-2c  
 CAD File: [usps/library/details/G5-3-2c.dwg] Scale: N.T.S. 0 1/2" 1" USPS SCL Issued: 10/1/2019 Last Revised: 6/11/2012

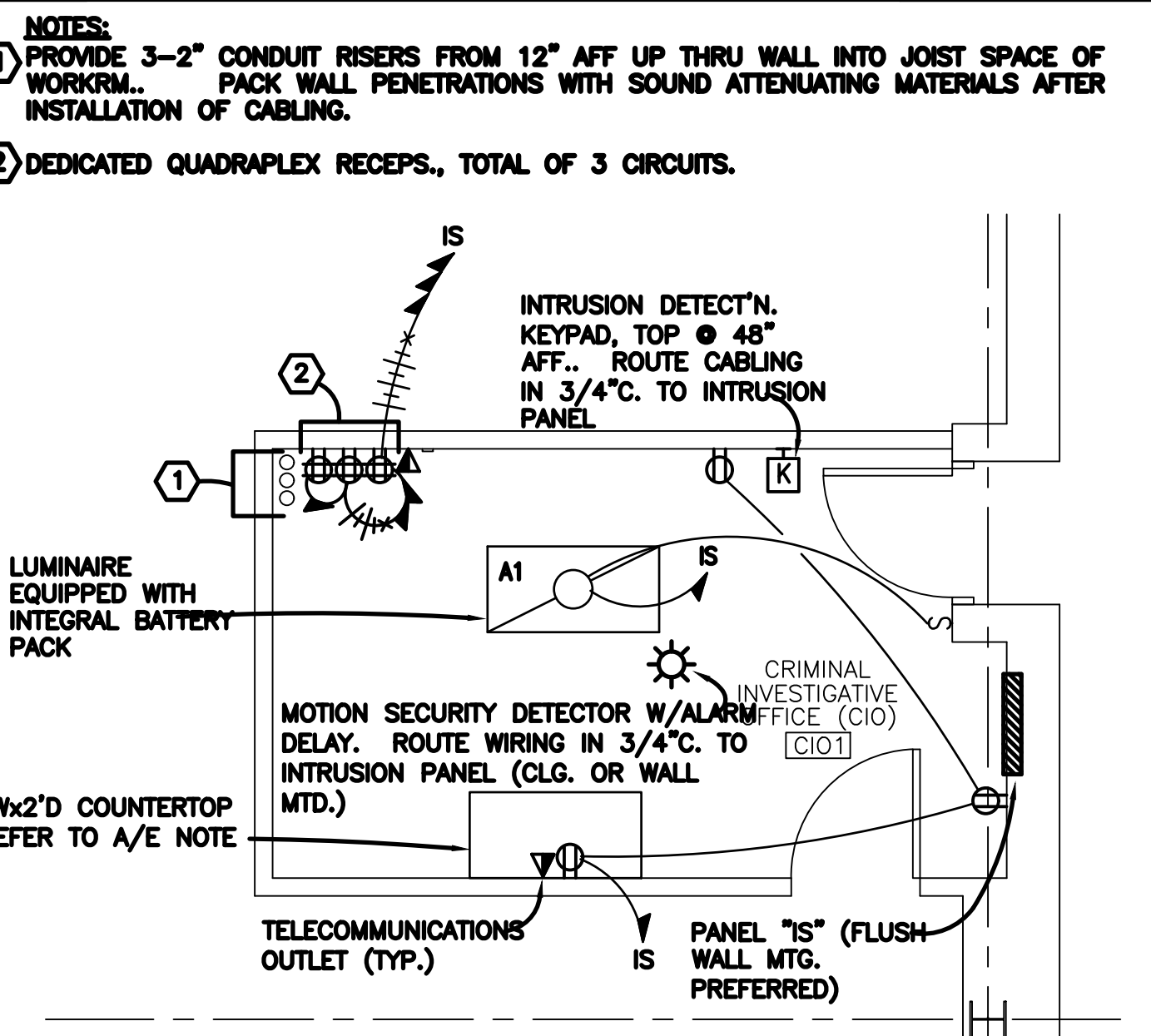


Detail: **RENT-A-BOX LIGHT BRACKET - DETAIL** Foc. [Ch. Sect. Para. Detail] G2-5-4m  
 CAD File: [usps/library/details/G2-5-4m.dwg] Scale: NONE 0 1/2" 1" USPS SCL Issued: 10/1/2019 Last Revised: 6/8/2016

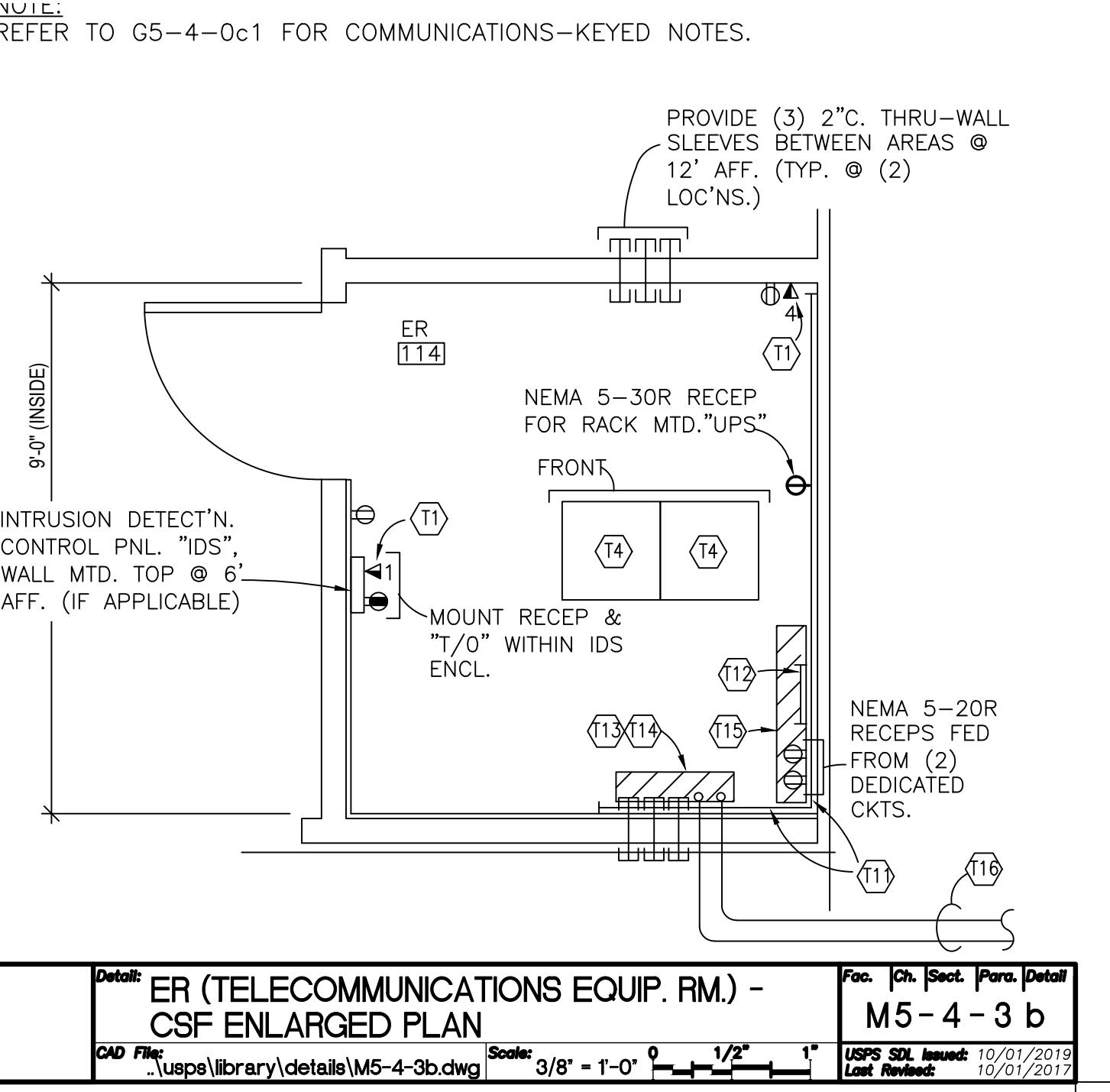


NOTES:  
 1. USE LOCKING BLADE TYPE OF CONNECTOR BODY (NEMA L5-20R, HUBBELL 20 AMP TWISTLOCK OR EQUAL) DO NOT USE STRAIGHT BLADE TYPES.  
 2. USE TYPE OF CONNECTOR BODY THAT GRIPS ON INSULATION OF "SO" CORD SO THAT TENSION IS NOT TRANSMITTED TO CONDUCTORS OR TERMINAL SCREWS.  
 3. USE CONTINUOUS LENGTHS OF "SO" CORD AT EACH DROP CORD LOCATION. SPLICES ARE NOT PERMITTED.

Detail: **CONVENIENCE OUTLETS - TWIST-LOCK DROP CORD - OPEN CEILING** Foc. [Ch. Sect. Para. Detail] G5-2-8b1  
 CAD File: [usps/library/details/G5-2-8b1.dwg] Scale: N.T.S. 0 1/2" 1" USPS SCL Issued: 10/1/2019 Last Revised: 6/11/2012



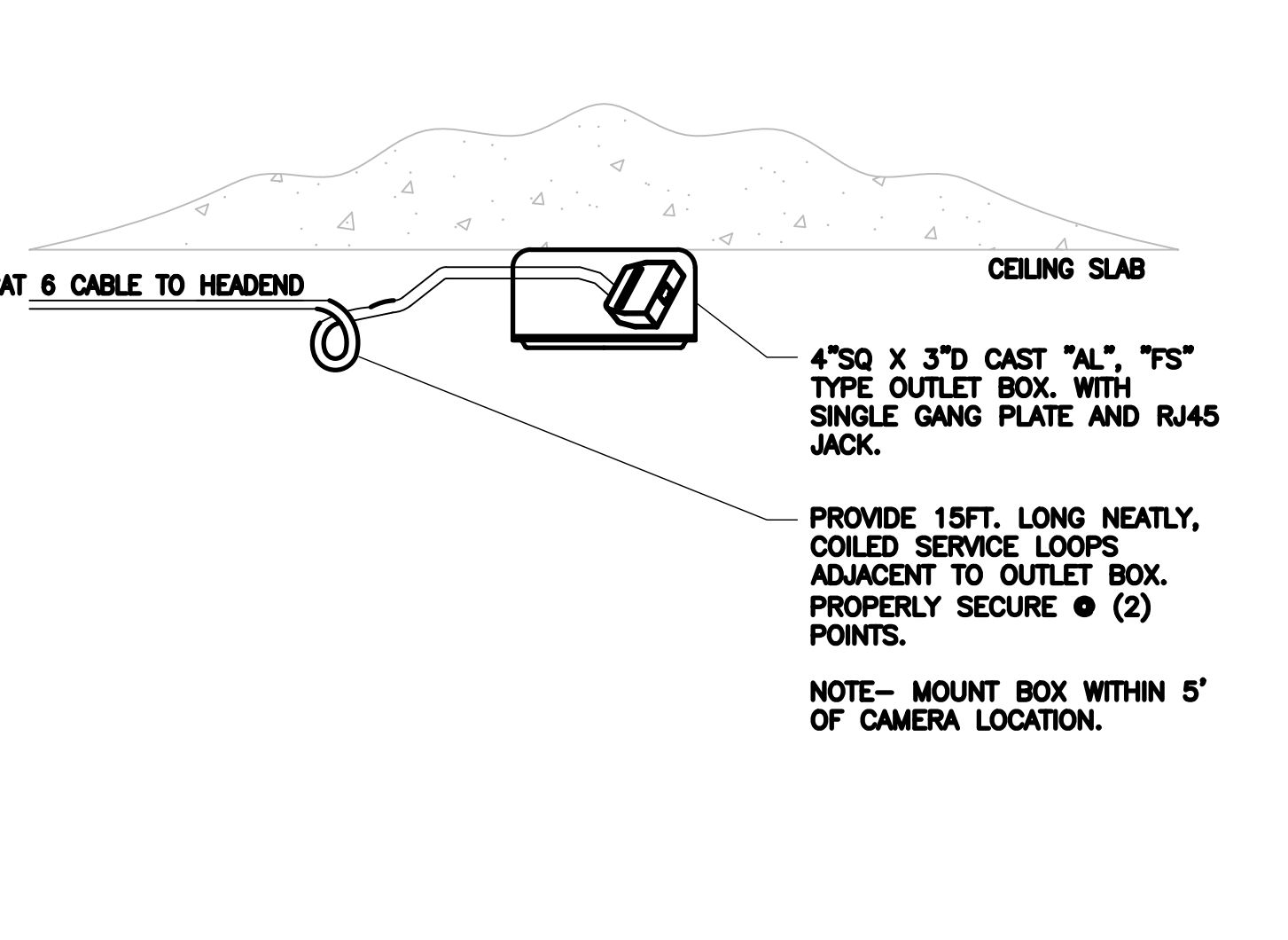
Detail: **CRIMINAL INVEST. OFFICE (CIO) - CSF MEDIUM ELECTRICAL PLAN DETAIL** Foc. [Ch. Sect. Para. Detail] M5-7-5a  
 CAD File: [usps/library/details/M5-7-5a.dwg] Scale: 1/4" = 1'-0" 0 1/2" 1" USPS SCL Issued: 10/1/2019 Last Revised: 10/1/2017



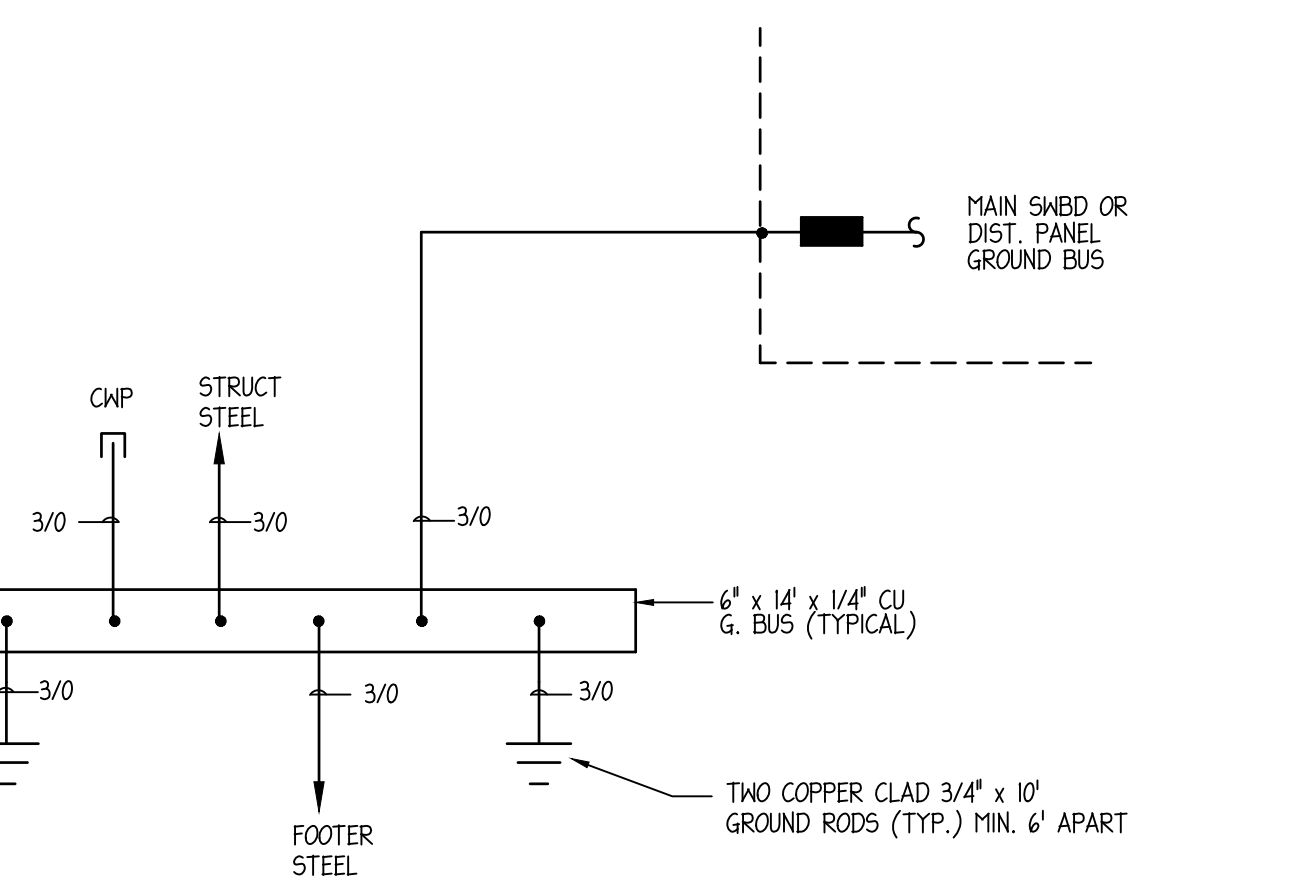
Detail: **ER (TELECOMMUNICATIONS EQUIP. RM.) - CSF ENLARGED PLAN** Foc. [Ch. Sect. Para. Detail] M5-4-3b  
 CAD File: [usps/library/details/M5-4-3b.dwg] Scale: 3/8" = 1'-0" 0 1/2" 1" USPS SCL Issued: 10/01/2019 Last Revised: 10/01/2017

- COMMUNICATIONS - KEYED NOTES
- T1 CATEGORY 6, TELECOMMUNICATION OUTLET (T/O): SIX-PLEX, QUAD-PLEX, TRI-PLEX, DUPLEX OR SINGLE TYPE DEPENDING ON THE APPLICATION. PROVIDE FLUSH BOX WITH 1" CONCEALED CONDUIT RISER EQUIPPED WITH 90° BEND AND BUSHING.
  - T2 ROUTE APPROPRIATE NUMBER OF CAT 6, HORIZONTAL CABLES FROM EACH T/O TO THE APPROPRIATE PATCH PANEL WITHIN HC RACK.
  - T3 ROUTE (2) CAT 6A, HORIZ. CABLES FROM EACH WAP TO THE APPROPRIATE CAT 6A, PATCH PANEL WITHIN HC RACK.
  - T4 MAIN CROSS CONNECT (MC) EQUIPMENT RACK(S), 7'Hx19"Wx3"D FLOOR MOUNTED.
  - T5 CATEGORY 6, 48 PORT PATCH PANEL(S) FOR TERMINATION OF CAT 6, HORIZONTAL CABLES (3 1/2"H; 2 RU'S).
  - T6 CATEGORY 6A, 24 PORT PATCH PANEL(S) FOR TERMINATION OF CAT 6A, HORIZONTAL CABLES (1 3/4"H; 1 RU').
  - T7 CATEGORY 3/5e, 48 PORT OR 24 PORT PATCH PANEL FOR TERMINATION OF INCOMING "VOICE" CABLES (3 1/2"H; 2 RU'S).
  - T8 HORIZONTAL WIREMINDER LOCATED AT TOP OF RACK (3 1/2"H; 2 RU'S).
  - T9 HORIZONTAL WIREMINDER LOCATED BETWEEN PATCH PANELS (3 1/2"H; 2 RU'S).
  - T10 6" SQ. DOUBLE DEPTH, VERTICAL WIREMINDER, @ LEFT & RIGHT SIDES OF RACK.
  - T11 3/4" FIRE TREATED PLYWOOD ON WALLS INDICATED FOR MOUNTING OF EQUIPMENT, TOP @ 8'-8" AFF..
  - T12 PRIMARY BONDING BUSBAR (PBB) 1/4"x2"Hx12"L. MOUNT ON ISOLATORS 1" OFF WALLS, TOP @ 1'-0" AFF..
  - T13 TEL. CO. DEMARCATION LOCATION.
  - T14 48 PORT RJ-11 MODULAR 66 BLOCK FOR TELEPHONE COMPANY LINE INTERFACE. INSTALL MODULAR 66 BLOCK ONTO PLYWOOD BACKBOARD, BY CONTRACTOR.
  - T15 WALL MOUNTED TEL. SYSTEM (PROVIDED BY USPS, REQUIRES 42"x42" CLEAR SPACE).
  - T16 PROVIDE (2) 4" CONDUITS UNDERGROUND FROM DEMARC/TEF LOCATION TO THE PROPERTY LINE. STUB CONDUITS 6" MINIMUM AFF. CONTRACTOR SHALL COORDINATE FINAL ROUTING WITH THE LOCAL TELE. PROVIDER.

Detail: **COMMUNICATIONS - KEYED NOTES** Foc. [Ch. Sect. Para. Detail] G5-4-0c1  
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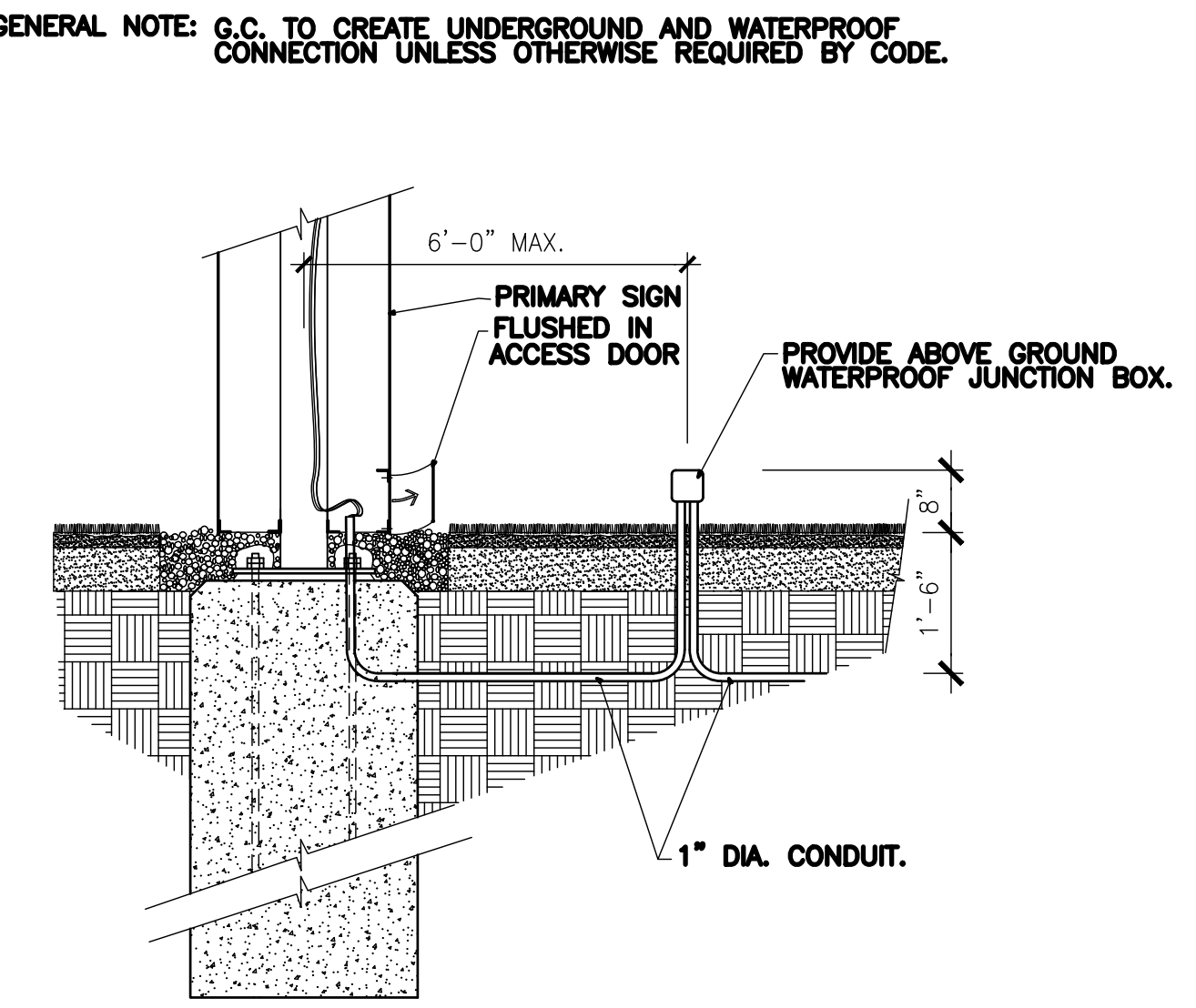


Detail: **SECURITY SYSTEM - INDOOR CEILING CCTV JUNCTION BOX DETAIL** Foc. [Ch. Sect. Para. Detail] G5-7-0k  
 CAD File: [usps/library/details/G5-7-0k.dwg] Scale: N.T.S. 0 1/2" 1" USPS SCL Issued: 10/1/2019 Last Revised: 6/11/2012



NOTES:  
 1. ALL GROUNDING PER NEC 250-81  
 2. ALL CONDUCTORS, MATERIALS CU CADWELDED GROUND BUS

**GROUNDING REQUIREMENTS AT THE SERVICE POINT & AT THE DIST. POINT** SCALE: N.T.S.



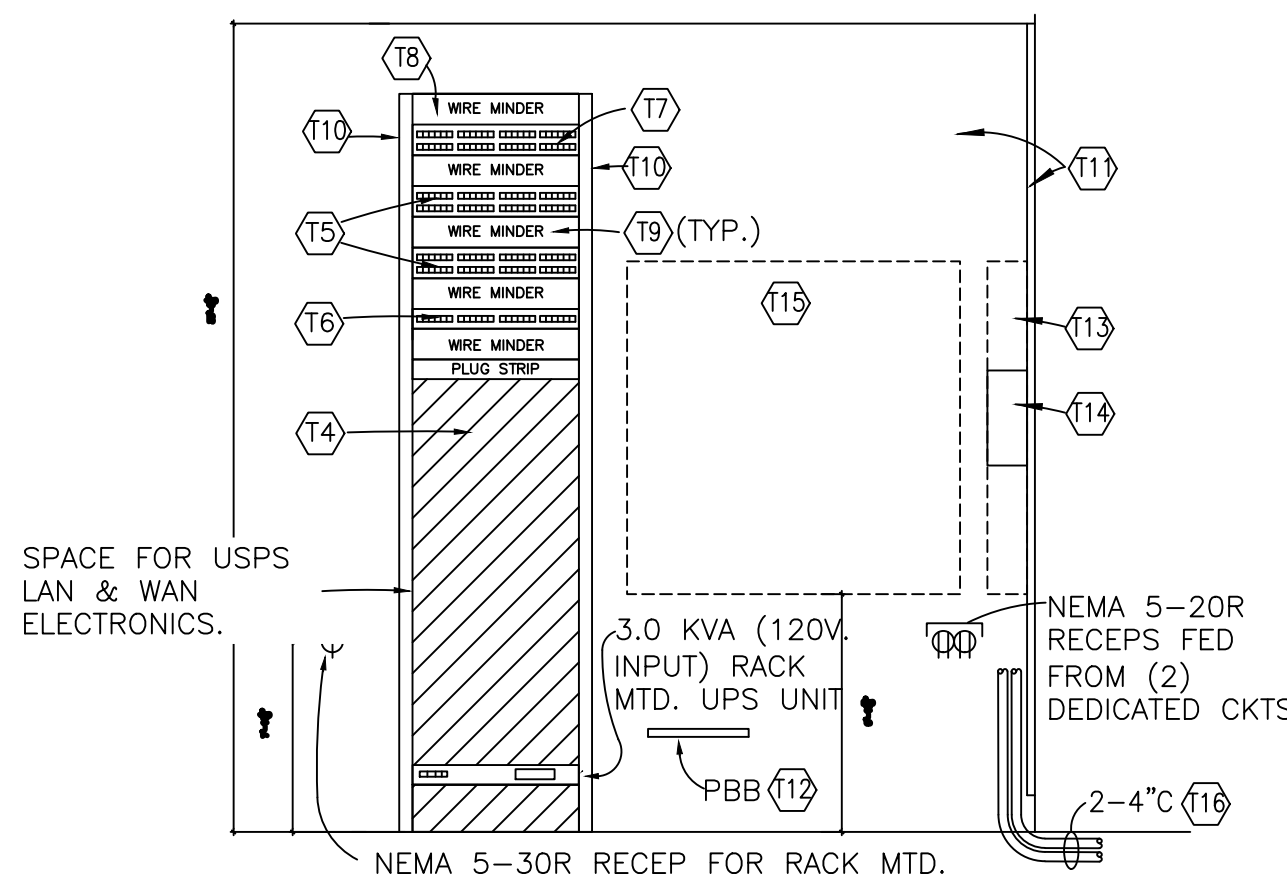
Detail: **EXTERIOR LIGHTING ABOVE GROUND SIGN CONNECTION** Foc. [Ch. Sect. Para. Detail] G5-3-2b1  
 CAD File: [usps/library/details/G5-3-2b1.dwg] Scale: N.T.S. 0 1/2" 1" USPS SCL Issued: 10/1/2019 Last Revised: 12/11/1999

Detail: **CRIMINAL INVEST. OFFICE (CIO) - CSF MEDIUM ELECTRICAL PLAN DETAIL** Foc. [Ch. Sect. Para. Detail] M5-7-5a  
 CAD File: [usps/library/details/M5-7-5a.dwg] Scale: 1/4" = 1'-0" 0 1/2" 1" USPS SCL Issued: 10/1/2019 Last Revised: 10/1/2017

Detail: **SECURITY SYSTEM - INDOOR CEILING CCTV JUNCTION BOX DETAIL** Foc. [Ch. Sect. Para. Detail] G5-7-0k  
 CAD File: [usps/library/details/G5-7-0k.dwg] Scale: N.T.S. 0 1/2" 1" USPS SCL Issued: 10/1/2019 Last Revised: 6/11/2012



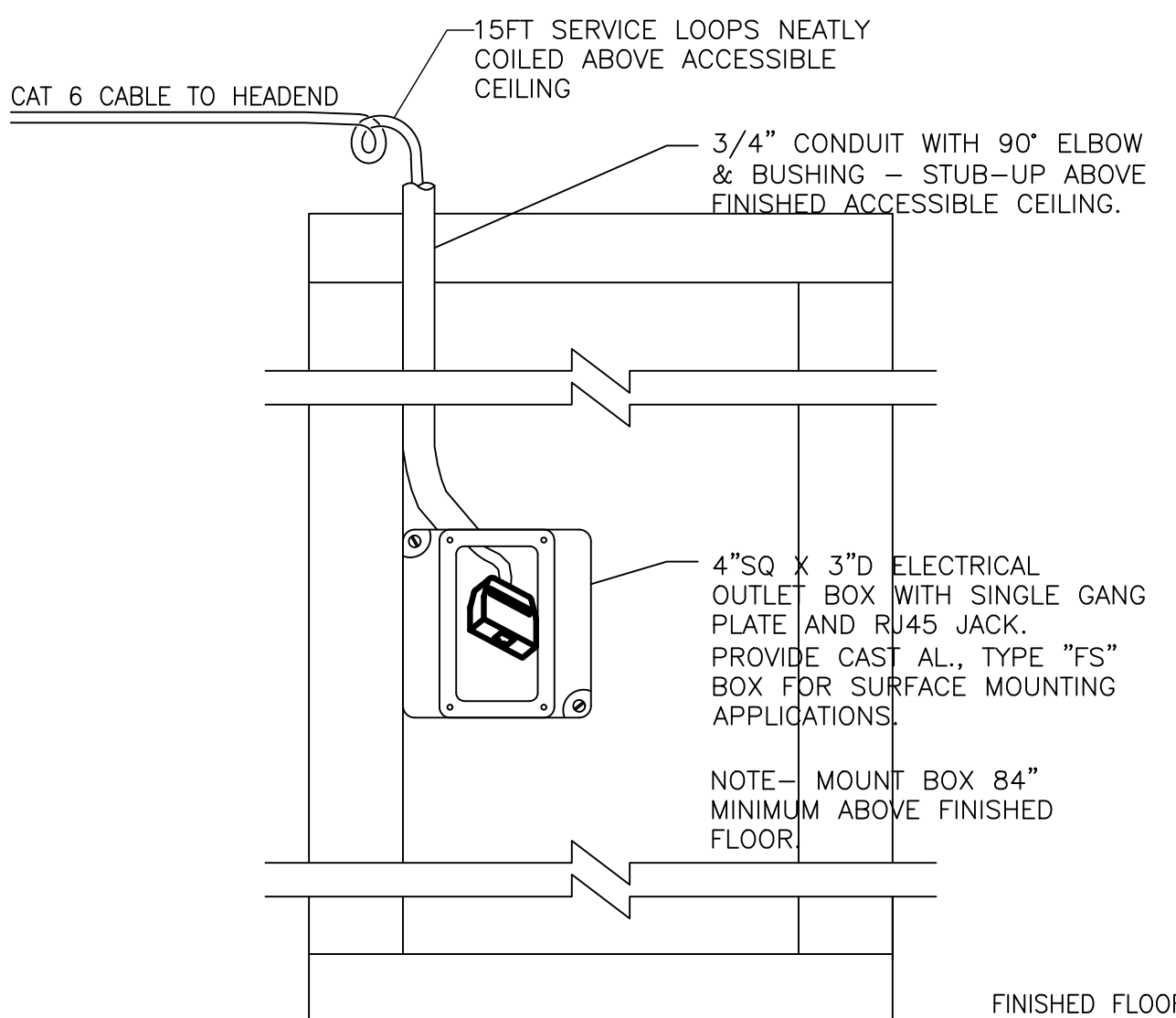
- NOTES:
- REFER TO G5-4-0b FOR COMMUNICATIONS-TYP. STRUCTURED CABLING RISER DIAGRAM.
  - REFER TO SEE G5-4-0c1 FOR COMMUNICATIONS-KEYED NOTES.
  - REFER TO M5-4-3b & 3b1 FOR TYPICAL CSF ER (EQUIPMENT ROOM) FLOOR PLAN.
  - (1) EQUIP. RACK WILL SUPPORT 40 RU'S (RACK UNITS). ALLOCATE A MINIMUM OF 24 RU'S WITHIN THE EQUIP. RACK FOR LAN AND WAN ELECTRONIC COMPONENTS PROVIDED BY THE USPS. IF MORE THAN 40 RU'S ARE REQUIRED, ADD ADDITIONAL 7"Hx19"Wx3"D FLOOR MTD. RACK. AND PROVIDE 6" SQ. DOUBLE DEPTH, VERTICAL WIRE MINDERS BETWEEN EACH RACK AND AT THE ENDS OF EACH RACK (TOTAL OF 3).
  - EACH RACK SHALL BE PROVIDED WITH AN INSTALLATION KIT AND ISOLATION PADS FOR SECURING AND ISOLATING THE RACK TO AND FROM THE FLOOR.



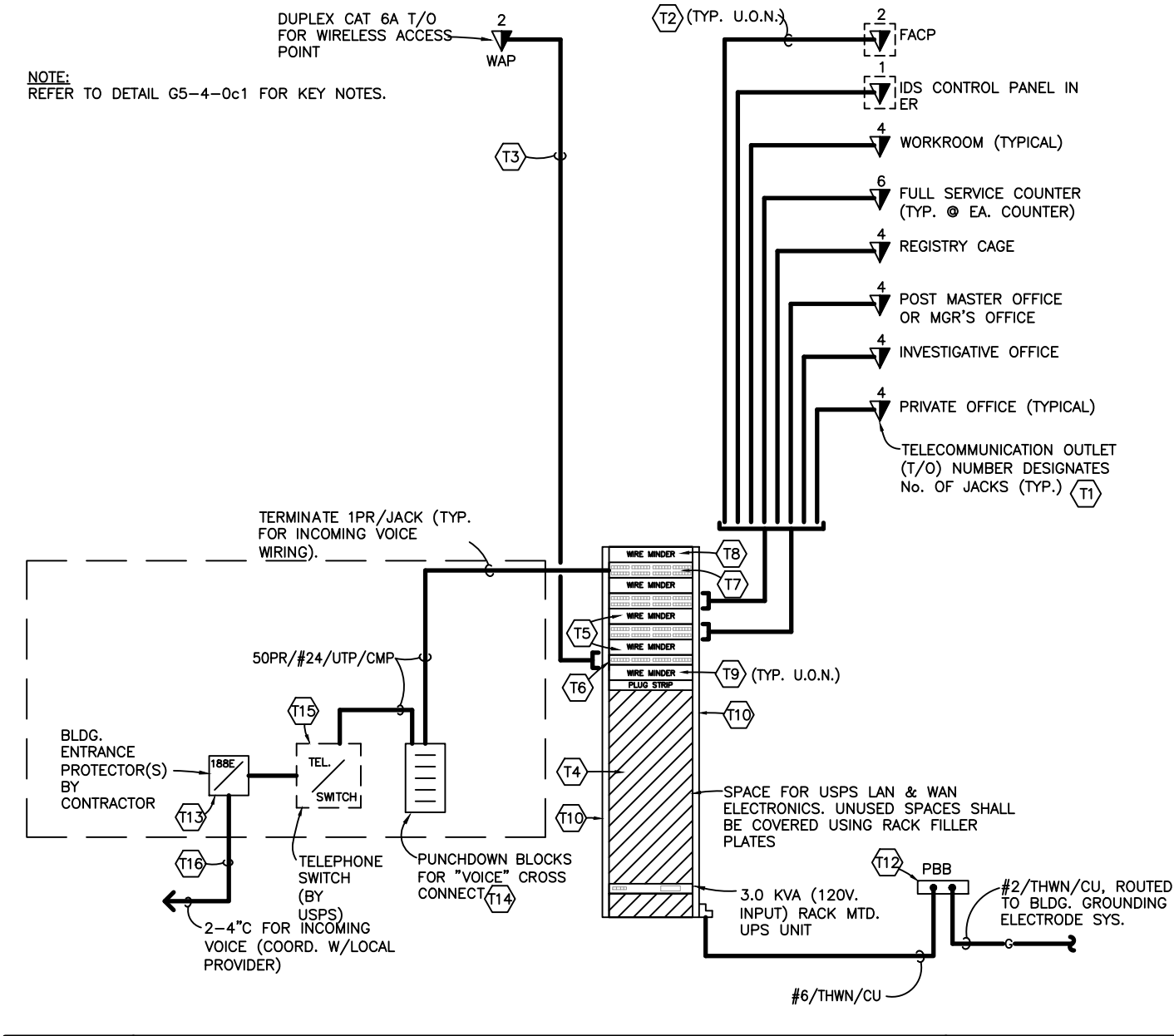
Detail: COMMUNICATIONS - RACK MOUNTED MC AND TEL. EQUIPMENT ELEVATION G5-4-0 c

- T1 CATEGORY 6, TELECOMMUNICATION OUTLET (T/O); SIX-PLEX, QUAD-PLEX, TRI-PLEX, DUPLEX OR SINGLE TYPE DEPENDING ON THE APPLICATION. PROVIDE FLUSH BOX WITH 1" CONCEALED CONDUIT RISER EQUIPPED WITH 90° BEND AND BUSHING.
- T2 ROUTE APPROPRIATE NUMBER OF CAT 6, HORIZONTAL CABLES FROM EACH T/O TO THE APPROPRIATE PATCH PANEL WITHIN HC RACK.
- T3 ROUTE (2) CAT 6A, HORIZ. CABLES FROM EACH WAP TO THE APPROPRIATE CAT 6A, PATCH PANEL WITHIN HC RACK.
- T4 MAIN CROSS CONNECT (MC) EQUIPMENT RACK(S), 7"Hx19"Wx3"D FLOOR MOUNTED.
- T5 CATEGORY 6, 48 PORT PATCH PANEL(S) FOR TERMINATION OF CAT 6, HORIZONTAL CABLING (3 1/2"H; 2 RU'S).
- T6 CATEGORY 6A, 24 PORT PATCH PANEL(S) FOR TERMINATION OF CAT 6A, HORIZONTAL CABLING (1 3/4"H; 1 RU)..
- T7 CATEGORY 3/5e, 48 PORT OR 24 PORT PATCH PANEL FOR TERMINATION OF INCOMING "VOICE" CABLING (3 1/2"H; 2 RU'S).
- T8 HORIZONTAL WIREMINDER LOCATED AT TOP OF RACK (3 1/2"H; 2 RU'S).
- T9 HORIZONTAL WIREMINDER LOCATED BETWEEN PATCH PANELS (3 1/2"H; 2 RU'S).
- T10 6" SQ. DOUBLE DEPTH, VERTICAL WIREMINDER, @ LEFT & RIGHT SIDES OF RACK.
- T11 3/4" FIRE TREATED PLYWOOD ON WALLS INDICATED FOR MOUNTING OF EQUIPMENT, TOP @ 8"-8" AFF..
- T12 PRIMARY BONDING BUSBAR (PBB) 1/4"x2"Hx12"L. MOUNT ON ISOLATORS 1" OFF WALLS, TOP @ 1'-0" AFF..
- T13 TEL. CO. DEMARCATION LOCATION.
- T14 48 PORT RJ-11 MODULAR 66 BLOCK FOR TELEPHONE COMPANY LINE INTERFACE. INSTALL MODULAR 66 BLOCK ONTO PLYWOOD BACKBOARD, BY CONTRACTOR.
- T15 WALL MOUNTED TEL. SYSTEM (PROVIDED BY USPS, REQUIRES 42"x42" CLEAR SPACE).
- T16 PROVIDE (2) 4" CONDUITS UNDERGROUND FROM DEMARC/TEF LOCATION TO THE PROPERTY LINE. STUB CONDUITS 6" MINIMUM AFF. CONTRACTOR SHALL COORDINATE FINAL ROUTING WITH THE LOCAL TELE. PROVIDER.

Detail: COMMUNICATIONS - KEYED NOTES G5-4-0 c1



Detail: SECURITY SYSTEM - INDOOR WALL CCTV JUNCTION BOX DETAIL G5-7-0 j



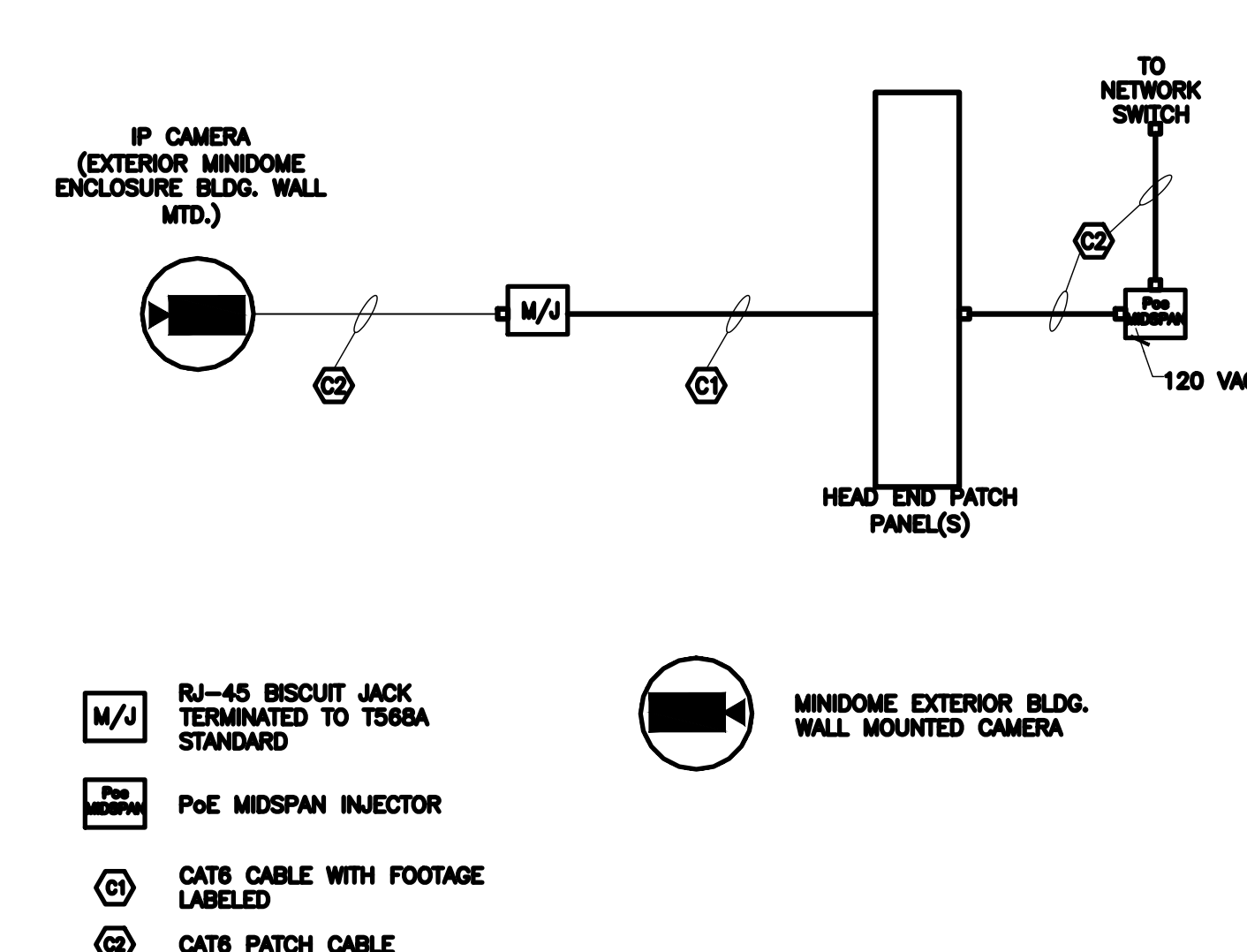
Detail: COMMUNICATIONS - TYPICAL STRUCTURED CABLING RISER DIAGRAM G5-4-0 b

- T1 TELECOMMUNICATION OUTLET (T.O.) FOR POS NETWORK (POS), FUTURE VENDING POLLING (FV), AND DEDICATED HEADQUARTERS TELEPHONE (HQ).
- T2 TELECOMMUNICATION OUTLET (T.O.) FOR CREDIT TELEPHONE (CT) & VOICE TELEPHONE (VT), AND ONE FUTURE.
- T3 TELECOMMUNICATION OUTLET (T.O.) FOR POS NETWORK (POS), AND TWO FUTURE.
- T4 NOT USED.
- T5 NOT USED.
- T6 ONE FLEXIBLE CONDUIT WITH HOME RUN OF (3) TELECOMMUNICATION WIRES PER TELECOMMUNICATION OUTLET. ROUTE CONDUIT UP THROUGH WALL AND STUB ABOVE CEILING.
- T7 PATCH PANEL FOR TELECOMMUNICATION TERMINATION, WALL MOUNTED.
- T8 WALL MOUNTED TELEPHONE EQUIPMENT (PROVIDED BY USPS, REQUIRES 42"x42" CLEAR SPACE).
- T9 TELEPHONE COMPANY DEMARCATION, WALL MOUNTED.
- T10 24 PORT RJ-11 MODULAR 66 BLOCK FOR TELEPHONE COMPANY LINE INTERFACE. INSTALL MODULAR 66 BLOCK ONTO PLYWOOD BACKBOARD.
- T11 3/4" FIRE TREATED PLYWOOD ON WALLS INDICATED FROM FLOOR TO 8'-0" AFF FOR MOUNTING OF EQUIPMENT.
- T12 DUPLEX OUTLETS TO DEDICATED CIRCUITS.
- T13 COMMUNICATIONS HUB (N.I.C.) AND POS HUB (N.I.C.)

Detail: COMMUNICATIONS - WALL MOUNTED MC KEYED NOTES S5-4-0 d1

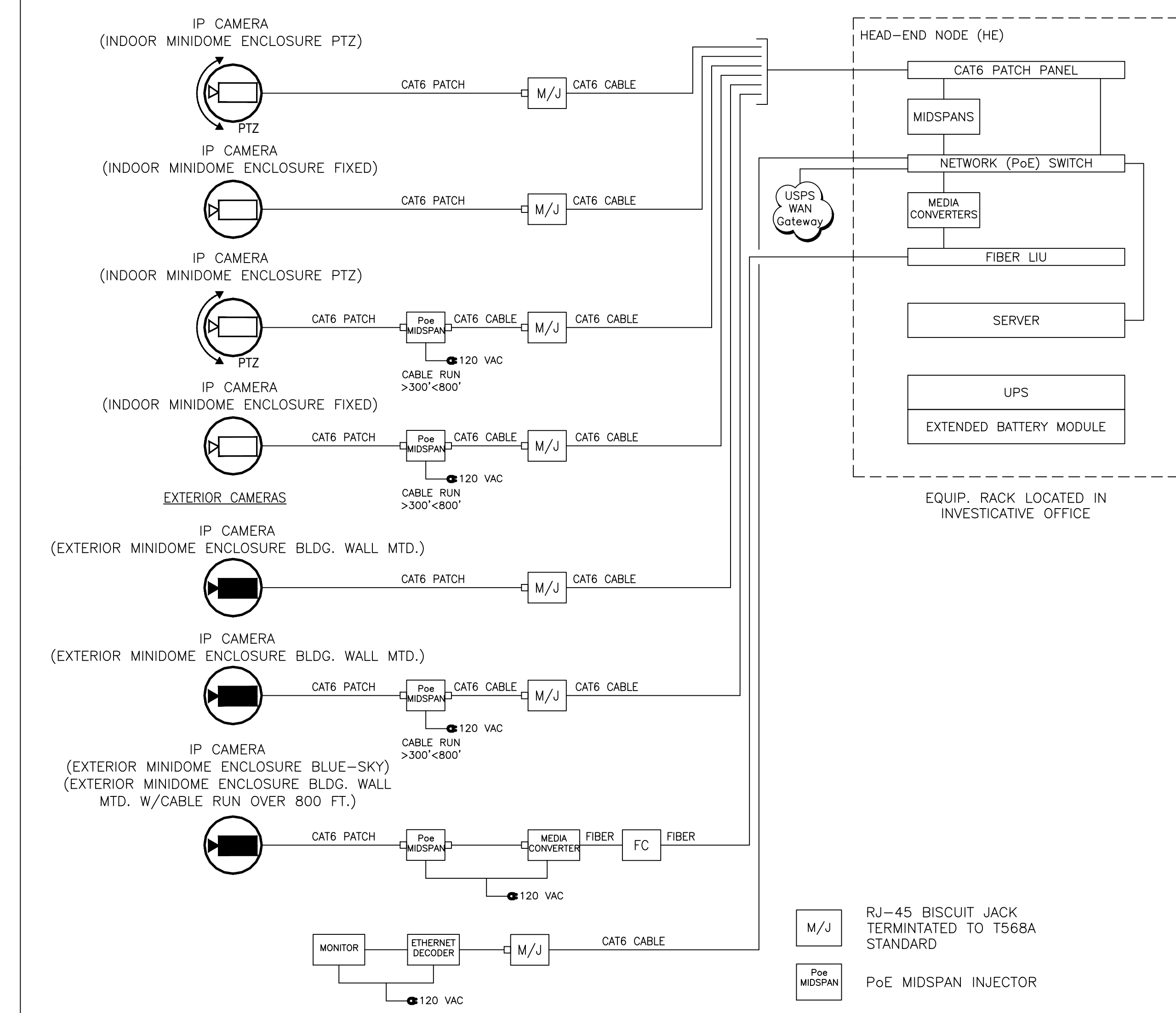
WIRING FOR EXTERIOR BUILDING WALL MOUNTED CAMERA RUN LESS THAN 300 FEET

NOTE: EXTERIOR BUILDING WALL MOUNTED CAMERAS SERVED BY INTERIOR CABLING ARE CONSIDERED TO BE "NON BLUE-SKY" TYPE AND SHALL BE WIRED SIMILARLY TO AN INDOOR CAMERA. PROVIDE SURGE PROTECTION.



Detail: CCTV SYSTEM - WIRING FOR BUILDING MOUNTED CAMERA RUN LESS THAN 300 FEET G5-7-0 c

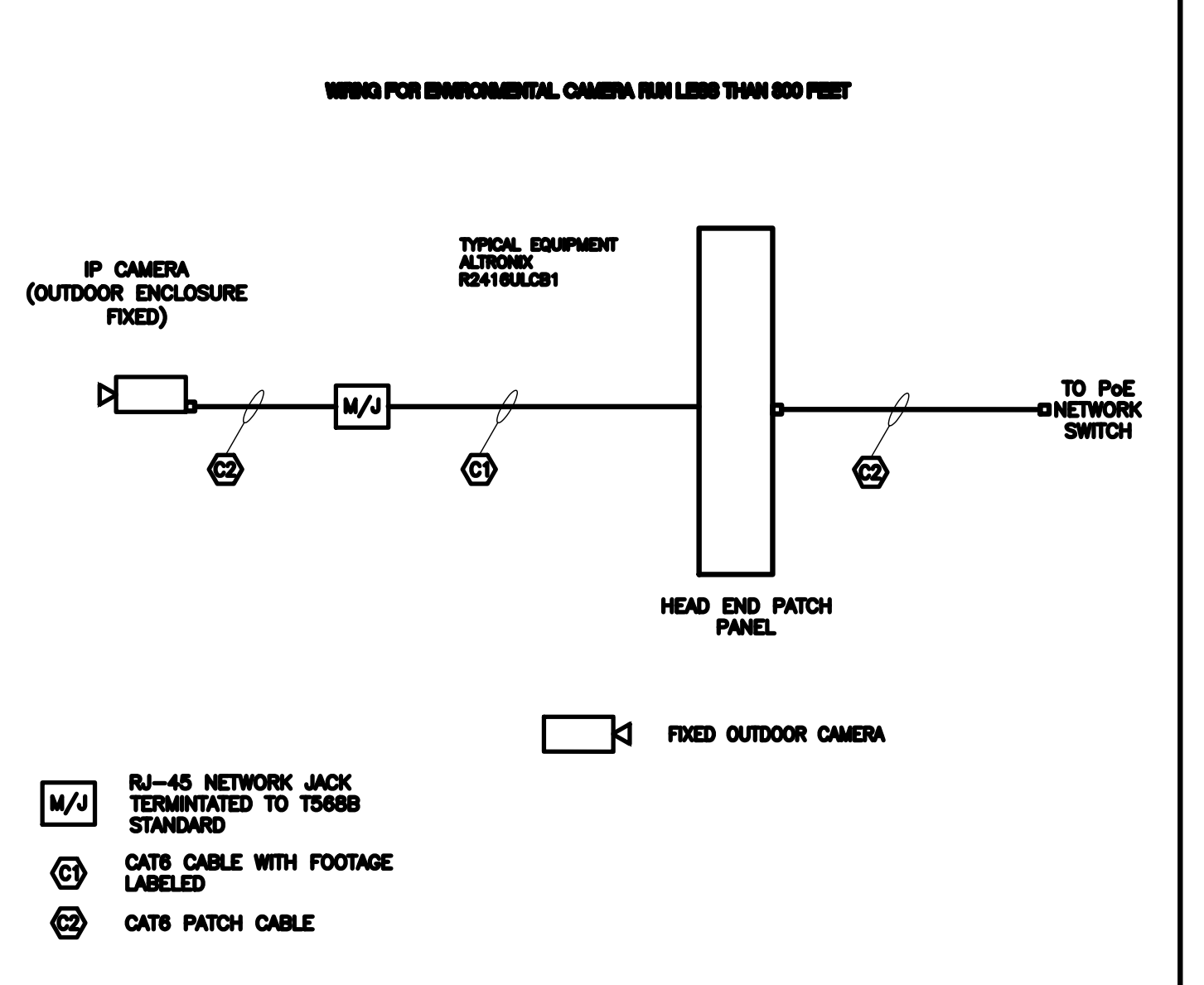
CCTV SYSTEM DIAGRAM SMALL/MEDIUM POST OFFICE (TYPICAL)



- M/J RJ-45 BISCUIT JACK TERMINATED TO T568A STANDARD
- PoE MIDSPAN PoE MIDSPAN INJECTOR

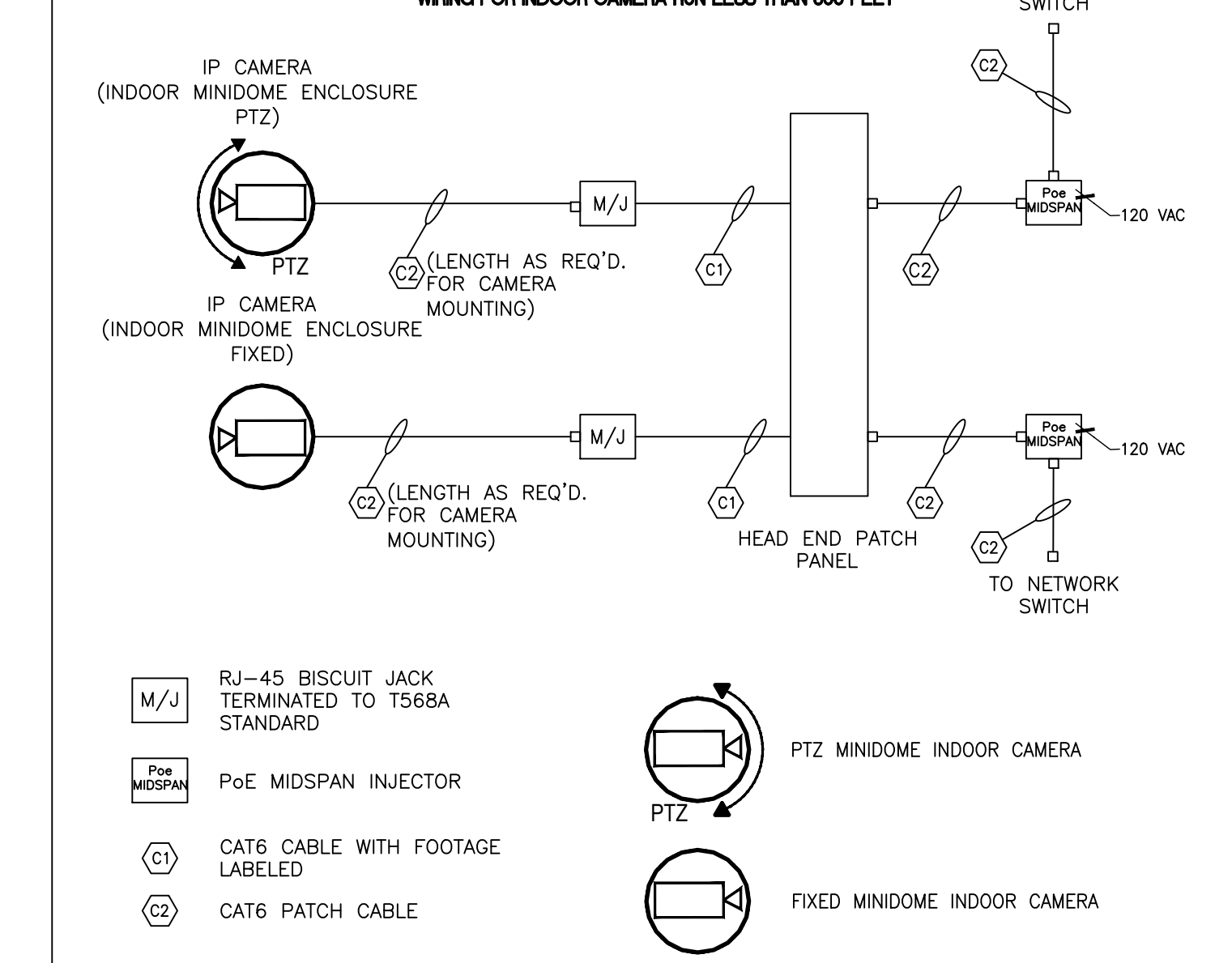
Detail: SECURITY SYSTEM - WIRING FOR ENVIRONMENTAL CAMERA RUN LESS THAN 300 FEET G5-7-0 e

WIRING FOR ENVIRONMENTAL CAMERA RUN LESS THAN 300 FEET



Detail: SECURITY SYSTEM - WIRING FOR ENVIRONMENTAL CAMERA RUN LESS THAN 300 FEET G5-7-0 e

WIRING FOR INDOOR CAMERA RUN LESS THAN 300 FEET



Detail: CCTV SYSTEM - WIRING FOR INDOOR CAMERA RUN LESS THAN 300 FEET G5-7-0 a